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NATIONAL STANDARD OF
THE PEOPLE'S REPUBLIC OF CHINA

GB 14554-1993

Replacing GBJ 4-73 ¹

Emission standards for odor pollutants

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Note: ¹ This Standard substitutes the indicators of hydrogen sulfide and carbon disulfide in GBJ 4-73.

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Emission standards for odor pollutants

This Standard is formulated to implement the *Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution*, to control the pollution of odor pollutants to the atmosphere, to protect and improve the environment.

1 Subject content and scope of application

1.1 Subject content

This Standard specifies the maximum emission limit at one time of eight odor pollutants, the odor concentration limit of complex odor substances, and the factory concentration limit at boundary of fugitive emission sources in chronological order.

1.2 Scope of application

This Standard is applicable to the emission management of all the organizations that emit odor gases to the atmosphere throughout the country and the garbage dumps, the environmental impact assessment, design and completion acceptance of the construction projects, and the emission management after the completion of construction.

2 Normative references

GB 3095 *Ambient air quality standard*

GB 12348 *Standard of noise at boundary of industrial enterprises*

GB/T 14675 *Air quality - Determination of odor - Triangle odor bag method*

GB/T 14676 *Air quality - Determination of trimethylamine - Gas chromatography*

GB/T 14677 *Air quality - Determination of toluene, dimethyl benzene and styrene - Gas chromatography*

GB/T 14678 *Air quality - Determination of sulfuretted hydrogen, methyl sulfhydryl, dimethyl sulfide and dimethyl disulfide - Gas chromatography*

GB/T 14679 *Air quality - Determination of ammonia - Sodium salicylate-sodium hypochlorite spectrophotometric method*

GB/T 14680 *Air quality - Determination of carbon disulfide - Diethylamine spectrophotometric method*

3 Terminology

3.1 Odor pollutants

The gaseous substances that stimulate the olfactory organs and thus cause unpleasantness and damage to the living environment.

3.2 Odor concentration

It refers to the dilution ratio required for diluting the odor gases (including the peculiar smell) with odorless air until it's just odorless.

3.3 Fugitive emission sources

The emission sources with no exhaust cylinder or an exhaust cylinder height of less than 15m.

4 Technical contents

4.1 Standard grading

The factory standard values at boundary of odor pollutants in this Standard are divided into three grades.

4.1.1 For the odor pollutants discharged into the Class I area in GB 3095, CARRY out the Grade I standard. No new pollutant discharging organization shall be established in the Class I area.

4.1.2 For the odor pollutants discharged into the Class II area in GB 3095, CARRY out the Grade II standard.

4.1.3 For the odor pollutants discharged into the Class III area in GB 3095, CARRY out the Grade III standard.

4.2 Standard values

4.2.1 The factory standard values at boundary of odor pollutants refer to the limits of fugitive emission sources. SEE Table 1.

the pollution sources are set at the exhaust vents of the control device. A permanent symbol shall be set.

6.1.4 The sampling frequency of the organized emission sources shall be determined according to the production cycle. For the production cycle within 8h, SAMPLE once every 2h; for the production cycle of greater than 8h, SAMPLE once every 4h. TAKE the maximum measured value.

6.2 Monitoring of fugitive emission sources

6.2.1 Sampling point

The sampling points for monitoring at boundary of factories shall be set on the downwind side at boundary of factories, or on the boundary line in the direction with the presence of odor.

6.2.2 Sampling frequency

For continuous emission sources, SAMPLE once every other 2h, for a total of 4 times. TAKE the maximum measured value.

For intermittent emission sources, SAMPLE within the period of time when the odor is most intense. The number of sample collections shall not be less than 3 times. TAKE the maximum measured value.

6.3 Monitoring of waters

During the monitoring of waters (including the sea, rivers, lakes, gutters and canals), the banks shall be considered as the boundary line at boundary of factories. The sampling point settings and the sampling frequency shall be the same as the monitoring of fugitive emission sources.

6.4 Determination

The methods for the determination of each individual odor pollutant and odor concentration in this Standard are shown in Table 3.

Table 3 -- Methods for the Determination of Odor pollutants and Odor Concentration

Serial No.	Controlled item	Methods for determination
1	Ammonia	GB/T 14679
2	Trimethylamine	GB/T 14676
3	Sulfuretted hydrogen	GB/T 14678
4	Methyl sulfhydryl	GB/T 14678
5	Dimethyl sulfide	GB/T 14678
6	Dimethyl disulfide	GB/T 14678

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