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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 37823-2019

Emission standard of air pollutants for pharmaceutical industry

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Foreword

To implement the Law of the People's Republic of China on Environmental Protection and the Law of the People's Republic of China on Prevention and Control of Atmospheric Pollution

The quality of the environment, promote the technological progress and sustainable development of the pharmaceutical industry, and develop this standard.

This standard specifies the requirements, monitoring, supervision and management requirements for air pollutant emission control in the pharmaceutical industry.

The discharge of water pollutants, odorous pollutants and environmental noise in pharmaceutical industrial enterprises or production facilities shall be subject to the corresponding national pollutant discharge standards.

The identification, treatment and disposal of solid wastes shall be subject to the corresponding national solid waste pollution control standards.

This standard is the first release.

Since July 1, 2019, the newly established enterprises have been controlling the emission of atmospheric pollutants according to this standard since July 1, 2020.

The implementation of the quasi-specified regulations will no longer implement the relevant provisions of the Comprehensive Emission Standards for Air Pollutants (GB 16297-1996). All places can be based on

The local environmental protection needs and economic and technical conditions shall be approved by the provincial people's government to implement this standard in advance.

This standard is the basic requirement for the control of atmospheric pollutant emissions in

the pharmaceutical industry. Projects not provided by local provincial people's governments for this standard,

Local pollutant discharge standards can be formulated; for projects that have been regulated in this standard, local pollutant discharge standards that are stricter than this standard can be formulated.

Appendix A, Appendix B and Appendix C of this standard are informative annexes.

This standard is formulated by the Department of Atmospheric Environment, Department of Regulations and Standards of the Ministry of Ecology and Environment.

This standard is mainly drafted by. China Academy of Environmental Sciences, Tongji University, Hebei Academy of Environmental Sciences, Taizhou Environmental Science Design Institute, China Chemical Pharmaceutical Industry Association.

This standard is approved by the Ministry of Ecology and Environment on April 16,.2019.

This standard has been implemented since July 1,.2019.

This standard is explained by the Ministry of Ecology and Environment.

Emission standards for air pollutants in the pharmaceutical industry

1 Scope of application

This standard specifies the requirements, monitoring, supervision and management requirements for air pollutant emission control in the pharmaceutical industry.

This standard applies to the management of atmospheric pollutants emissions from existing pharmaceutical industrial enterprises or production facilities, as well as the environment of pharmaceutical industry construction projects.

Impact assessment, environmental protection facility design, completion environmental protection acceptance, emission permit issuance and management of atmospheric pollutant emissions after commissioning.

This standard also applies to pharmaceutical intermediates for pharmaceutical production and their production facilities, as well as large drug research and development institutions and their experimental facilities.

Gas pollutant discharge management.

2 Normative references

This standard refers to the following documents or their terms. For dated references, only the dated version applies to this standard.

For undated references, the latest edition (including all amendments) applies to this

standard.

GB 37822 Volatile Organic Compounds Unorganized Emission Control Standard

GB/T 4754-2017 National Economic Industry Classification

GB/T 8017 Determination of vapour pressure of petroleum products - Reid method

GB/T 13554-2008 high efficiency air filter

GB/T 14669 Determination of air quality ammonia - Ion selective electrode method

GB/T 14678 Determination of air quality hydrogen sulfide, methyl mercaptan, methyl sulfide and dimethyl disulfide - Gas chromatography

GB/T 15516 Determination of formaldehyde in air quality - acetylacetone spectrophotometric method

GB/T 16157 Determination of particulate matter in fixed pollution source exhaust gas and sampling method of gaseous pollutants

HJ/T 27 Determination of hydrogen chloride in fixed source exhaust gases - Mercury thiocyanate spectrophotometric method

HJ/T 28 Determination of hydrogen cyanide in fixed source exhaust gases isonic acid-pyrazolone spectrophotometric method

HJ/T 30 Determination of chlorine in fixed source exhaust gases - methyl orange spectrophotometric method

HJ/T 31 Determination of phosgene in fixed source exhaust gases - aniline ultraviolet spectrophotometric method

Determination of total hydrocarbons, methane and non-methane total hydrocarbons from stationary sources - Gas chromatographic method

HJ/T 42 Determination of nitrogen oxides in fixed source exhaust gases - UV spectrophotometric method

HJ/T 43 Determination of nitrogen oxides in fixed source s

HJ/T 55 Technical Guidelines for the Monitoring of Unorganized Emissions of Air Pollutants

HJ/T 56 Determination of sulfur dioxide in fixed source exhaust gases - Iodometric method

HJ 57 Determination of sulfur dioxide in fixed source pollution - Determination of sulphur

HJ 77.2 Determination of ambient air and exhaust gases - Determination of dioxins - High-resolution gas chromatography - High resolution mass spectrometry

HJ/T 397 Fixed Source Exhaust Gas Monitoring Technical Specification

HJ 533 Determination of ambient air and exhaust ammonia - Nessler reagent

spectrophotometry

HJ 547 Determination of chlorine in fixed source pollution - Iodometric method

HJ 548 Determination of hydrogen chloride in fixed source of waste gas - Silver nitrate volume method

HJ 549 Determination of ambient air and exhaust gases - Hydrogen chloride

HJ 583 Determination of Benzene in Ambient Air - Solid Adsorption/Thermal Desorption - Gas Chromatography

HJ 584 Determination of Benzene in Ambient Air - Activated Carbon Adsorption/Carbon Disulfide Desorption - Gas Chromatography

HJ 604 Determination of total hydrocarbons, methane and non-methane total hydrocarbons - Direct injection - Gas chromatography

HJ 629 Determination of sulfur dioxide in fixed source pollution - Non-dispersive infrared absorption method

HJ 644 Determination of Environmental Air Volatile Organic Compounds - Sampling Tube Sampling - Thermal Desorption/Gas Chromatography - Mass Spectrometry

HJ 683 Determination of ambient aldehydes and ketones - High performance liquid chromatography

HJ 692 Determination of nitrogen oxides from fixed pollution sources - Non-dispersive infrared absorption method

HJ 693 Determination of nitrogen oxides from fixed source waste gases

HJ 732 Sampling air bag method for fixed volatile waste gas

HJ 734 Determination of Volatile Organic Compounds from Fixed Pollution Sources - Solid Phase Adsorption - Thermal Desorption/Gas Chromatography - Mass Spectrometry

HJ 759 Determination of ambient air volatile organic compounds - Tank sampling/gas chromatography - mass spectrometry

HJ 819 General Guidelines for Self-Monitoring Technical Units of Sewage Units

HJ 836 Determination of low-concentration particulate matter of fixed source pollution

HJ 944 Sewage unit environmental management ledger and discharge permit implementation report technical specification general (trial)

HJ 1012 Environmental Air and Exhaust Gases, Methane and Non-Methane Total Hydrocarbon Portable Monitors Technical Requirements and Test Methods

HJ 1013 Technical requirements and test methods for continuous pollution source