

ICS 13.040.40
CCS Z 60



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

GB 31571-2015

**Emission standard of pollutants for petroleum chemistry
industry
(English Translation)**

Issued on: April 16, 2015

Implemented on: July 1, 2015

**Issued by: Ministry of Environmental Protection, General Administration
of Quality Supervision, Inspection and Quarantine of the People's
Republic of China**

Table of Contents

Preface	
1 Scope	
2 Normative references	
3 Terms and definitions	
4 Water pollutant emission control requirements	
5 Air pollutant emission control requirements	
6 Pollutant monitoring requirements	.17
7 Implementation and Oversight	
Appendix A (informative) organic chemicals directory	.23

Foreword

To implement the "People's Republic of China Environmental Protection Law", "People's Republic of China Water Pollution Prevention Law," "Chinese people Republic of China Air Pollution Prevention Law "and other laws and regulations to protect the environment, prevent pollution and promote the petrochemical industry technology Progress and sustainable development, the development of this standard.

This standard specifies the water pollutant emission limits of air pollutants and petrochemical industrial enterprises and production facilities, monitoring and supervision and management requirements.

Petrochemical industry enterprises discharge odor pollutants, environmental noise applicable relevant national pollutant discharge standards, resulting in solid Identification of the body of waste, treatment and disposal of solid waste applicable respective national pollution control standards. Supporting the implementation of power boiler "pot Furnace air pollutant emission standards "or" thermal power plant air pollutant emission standards. " this standard is the first release.

New companies since July 1, 2015, existing companies since July 1, 2017 onwards, its water pollutants and air pollution Pollutants emission control executed according to the provisions of the standard, not executed "Integrated Wastewater Discharge Standard" (GB 8978-1996), "Guan in an announcement < wastewater discharge standards> (GB 8978-1996) in the petrochemical industry standard COD value of amendments "(ring [1999] No. 285), "Air Pollutant Emission Standards" (GB 16297-1996) and "industrial furnace air pollution Emission Standards "relevant provisions (GB 9078-1996) in. It can also be based around the needs of environmental protection and local economic and Technical conditions,

approved by the provincial people's government to advance the implementation of this standard.

There are special state issued emission standards (such as synthetic resin industry emission standards) for the petrochemical industry, should be the applicable emission standards on the object of special provisions, is no longer the implementation of this standard.

This standard is the basic requirement petrochemical industrial water pollutants and air pollutant emission control. Local people's governments at the provincial level this standard is not specified for the project, it can develop local emission standards; this standard has been provided for the project, can Develop local emission standards more stringent than this standard. Environmental impact assessment documents or sewerage strict licensing requirements in this standard or Local standards, in accordance with the approved environmental impact assessment documents or waste discharge permit execution.

This standard is developed by the Ministry of Environmental Protection Science, Technology organization.

This standard was drafted. Fushun Petrochemical Research Institute, Chinese Academy of Environmental Sciences.

This standard MEP April 3, 2015 for approval.

This standard from July 1, 2015 implementation.

The standard explanation by the Ministry of Environmental Protection.

Petrochemical industry emission standards

1 Scope

This standard specifies the water pollutant emission limits of air pollutants and petrochemical industrial enterprises and production facilities, monitoring and supervision and management requirements.

This standard applies to water pollutants and air pollutant discharge management of existing petrochemical industry enterprises or production facilities to Environmental impact assessment and petrochemical industrial construction projects, environmental protection facilities design, production and acceptance of completed Water pollutants and air pollutant emissions management post.

This standard applies to pollution discharge permitted by law. Sources within the newly established location and the existing special protection area Pollution management, according to "People's Republic of China Water Pollution Prevention Law," "People's Republic of China Air Pollution Prevention Law" "People's Republic of China Marine Environmental Protection Law", "People's Republic of China Solid Waste Pollution

Prevention Law," "in the PRC Environmental Impact Assessment Law "and other laws and relevant regulations and rules of execution.

2 Normative references

This standard refers to the contents of the following documents or the terms. For undated references, the latest edition of to this standard.

Determination of the glass electrode method GB/T 6920 Water Quality pH value
 Determination of GB/T 7466 Water Quality total chromium GB/T 7467 Water quality -
 Determination of hexavalent chromium diphenyl hydrazine spectrophotometry GB/T 7469
 Water quality - Determination of total mercury - Potassium permanganate - potassium
 persulfate digestion dithizone spectrophotometric method Determination of GB/T 7470
 Water quality dithizone spectrophotometry GB/T 7471 Water quality - Determination of
 cadmium dithizone spectrophotometry Determination of GB/T 7472 Water quality zinc
 dithizone spectrophotometry GB/T 7475 Water quality copper, zinc, lead, and cadmium -
 Atomic absorption spectrophotometry GB/T 7484 Water quality - Determination of fluoride
 ion selective electrode method Determination of GB/T 7485 Water Quality total arsenic
 diethyl dithiocarbamate spectrophotometry silver GB/T 8017 Petroleum products -
 Determination of Reid vapor pressure method Determination of N- (1- naphthyl) GB/T
 11889 Quality aniline azo compounds ethylenediamine spectrophotometry GB/T 11890
 Benzene by Gas Chromatography Determination of GB/T 11893 of total phosphorus -
 Ammonium molybdate spectrophotometric method GB/T 11895 Water quality
 Determination pyrene benzo (a) Acetylated paper chromatography with fluorescence
 spectrophotometry Determination of GB/T 11901 Quality of suspended solids - Gravimetric
 method GB/T 11910 Water quality Determination of nickel dimethylglyoxime
 spectrophotometry Flame GB/T 11912 Quality of nickel by atomic absorption
 spectrophotometry Determination of GB/T 11914 Quality Chemical Oxygen Demand
 dichromate method GB/T 14204 Quality alkyl mercury by gas chromatography GB/T 14672
 Quality pyridine by gas chromatography Determination of GB/T 15432 Ambient Air Act by
 weight of total suspended particulates GB/T 15439 Ambient Air benzo (a) pyrene HPLC
 GB/T 15501 Air quality nitrobenzene (a nitro and dinitro compound) Determination of zinc
 reduction - salt Acid naphthylethylenediamine spectrophotometry GB/T 15502 Air quality -
 Determination of aniline hydrochloride naphthylethylenediamine spectrophotometry
 Determination of GB/T 15503 Quality vanadium tantalum reagent (BPHA) extraction
 spectrophotometry GB/T 15516 Air quality - Determination of formaldehyde - Acetylacetone
 spectrophotometric method GB/T 15959 Quality adsorbable organic halogens (AOX)
 Measurement micro coulometry GB/T 16157 Stationary source emission-Determination of
 particulates and gaseous pollutants sampling methods GB/T 16489 Water quality
 Determination of sulfide - Methylene blue spectrophotometric method HJ/T 27 Stationary
 source emission - Determination of hydrogen chloride mercuric thiocyanate
 spectrophotometry Determination of HJ/T 28 Stationary source emission hydrogen cyanide

isonicotinic acid - pyrazolone spectrophotometric method HJ/T 30 Stationary source emission-Determination of chlorine spectrophotometry with methyl orange HJ/T 31 Stationary source emission - Determination of aniline phosgene UV spectrophotometry Determination of HJ/T 32 stationary source emission phenolic compound 4-amino-antipyrine spectrophotometric method HJ/T 33 stationary source emission was measured by gas chromatography in methanol HJ/T 34 stationary source emission of vinyl chloride by gas chromatography HJ/T 35 stationary source emission of acetaldehyde by Gas Chromatography HJ/T 36 Stationary source emission of acrolein by gas chromatography HJ/T 37 Stationary source emission acrylonitrile by Gas Chromatography HJ/T 38 stationary source emission-Africa-methane hydrocarbons by gas chromatography HJ/T 39 Stationary source emission chlorobenzenes - Gas chromatographic method HJ/T 40 stationary source emission of benzo (a) pyrene HPLC Determination of UV HJ/T 42 Stationary source emission of nitrogen oxides spectrophotometry HJ/T 43 Stationary source emission-Determination of nitrogen oxides hydrochloride naphthylethylenediamine spectrophotometry HJ/T 50 Water quality - Determination of chloral DPD spectrophotometric HJ/T 55 fugitive emission monitoring of air pollutants Technical guidelines HJ/T 56 stationary source emission measurement of sulfur dioxide Iodometry Determination of HJ/T 57 stationary source emission of sulfur dioxide constant potential electrolysis Determination of HJ/T 60 quality sulfides Iodimetry Gas chromatographic method HJ/T 66 atmosphere from stationary sources of chlorobenzenes HJ/T 67 Stationary source emission-Determination of fluoride ion selective electrode method HJ/T 68 atmosphere from stationary sources of aniline by Gas Chromatography HJ/T 70 high chloride wastewater COD correction method of measuring chlorine HJ/T 72 Water dimethyl phthalate (dibutyl, dioctyl) Determination of fat liquid chromatography HJ/T 73 Water quality Acrylonitrile by Gas Chromatography HJ/T 74 Quality of chlorobenzene by Gas Chromatography HJ/T 75 stationary sources Continuous Emission Monitoring Technical Specification (Trial) HJ/T 76 stationary sources Continuous Emission Monitoring system technical requirements and test methods (Trial) HJ 77.1 Determination of water quality dioxins isotope dilution high resolution gas chromatography - high resolution mass spectrometry Determination HJ 77.2 Ambient Air and Waste dioxins isotope dilution HRGC -High resolution mass spectrometry HJ/T 83 quality adsorbable organic halogens (AOX) by ion chromatography HJ/T 91 surface water and wastewater monitoring technical specifications Determination of HJ/T 132 high chloride wastewater COD potassium iodide alkaline potassium permanganate HJ/T 195 Water quality - Determination of ammonia gas phase molecular absorption spectrometry Determination of HJ/T 200 Water sulfide gas phase molecular absorption spectrometry HJ/T 373 from stationary sources to monitor quality assurance and quality control techniques (Trial) HJ/T 397 stationary source emission monitoring and technical specifications Determination of HJ/T 399 Water quality COD rapid digestion spectrophotometry Determination of liquid-liquid extraction HJ 478 water quality and solid phase extraction of polycyclic aromatic hydrocarbons by high performance liquid chromatography Determination of cyanide HJ 484 Water capacity and