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

GB/T 18204.2-2025

Replacing GB/T 18204.2-2014

**Examination methods for public places - Part 2: Chemical
indicators**

公共场所卫生检验方法 第2部分：化学性指标

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is part 2 of GB/T 18204 "Test methods for hygiene in public places". GB/T 18204 has been published in the following parts.

- Part 1: Physical properties;
- Part 2: Chemical properties;
- Part 3: Air microbial indicators;
- Part 4: Microbiological indicators for public supplies and utensils;

- Part 5: Central air conditioning and ventilation systems;
- Part 6: Technical specifications for health monitoring.

This document replaces GB/T 18204.2-2014 "Public Place Hygiene Inspection Methods Part 2: Chemical Pollutants" and Compared with GB/T 18204.2-2014, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) The scope has been changed (see Chapter 1, Chapter 1 of the 2014 edition);
- b) Added terms and definitions (see Chapter 3);
- c) The method for determining carbon dioxide by volumetric titration has been deleted (see 4.3 of the 2014 edition);
- d) The method for determining formaldehyde by gas chromatography has been deleted (see 7.3 of the 2014 edition);
- e) Added the filter membrane weighing method for fine particles (see 7.1);
- f) Added high performance liquid chromatography for formaldehyde (see 8.3);
- g) Added the test method for redox potential in swimming pool water (see Chapter 15);
- h) Changes to the technical specifications of indicators such as carbon monoxide, carbon dioxide, inhalable particulate matter, fine particulate matter, formaldehyde, ammonia, ozone, urea, and hydrogen sulfide Technical points (see Chapters 4 to 9, 12 to 14, 2014 edition, Chapters 3 to 8, 12 to 14 chapter);
- i) Changed the test methods for total volatile organic compounds, benzene, toluene and xylene (see Chapter 10 and Chapter 11, 2014 Edition) Chapter 9~Chapter 11);
- j) The test methods for benzene, toluene and xylene have been changed (see Chapter 11, Chapters 10 and 11 of the 2014 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed and coordinated by the National Center for Disease Control and Prevention.

This document was drafted by: Institute of Environmental and Health-related Product Safety, Chinese Center for Disease Control and Prevention, Anhui Provincial Center for Disease Control and Prevention, Huazhong University of Science and Technology, Shenzhen Center for Disease Control and Prevention.

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The previous versions of this document and the documents it replaces are as follows.

- GB/T 17220-1998 "Technical Specifications for Hygiene Monitoring in Public Places" was first published in 1998 and in 2000 GB/T 18204.23-2000 "Determination of carbon monoxide in the air of public places", GB/T 18204.24-2000 "Determination of carbon monoxide in the air of public places" GB/T 18204.25-2000 "Determination of ammonia in the air of public places" GB/T 18204.26-2000 "Method for determination of formaldehyde in the air of public places", GB/T 18204.27-2000 "Method for determination of formaldehyde in the air of public places" GB/T 18204.29-2000 "Determination of Ozone in Air" and GB/T 18204.29-2000 "Determination of Urea in Swimming Water";
- GB/T 18204.2-2014 was revised for the first time in 2014, replacing GB/T 18204.23~GB/T 18204.27-2000, GB/T 18204.29-2000, partially replaces GB/T 17220-1998;
- This is the second revision.

Introduction

GB/T 18204 "Public Place Hygiene Inspection Methods" is a national recommended standard and is consistent with GB 37488 "Public Place Hygiene Indicators and Limits".

GB/T 18204 (all parts) is used in conjunction with the "Requirements for the Implementation of the Regulations on the Administration of Public Health".

It is conducive to standardizing sample collection, on-site and laboratory testing in public places, and improving the precision, accuracy and Comparability provides important support for ensuring the sanitation and safety of public places and the health of the public. This document is Part 2 of GB/T 18204.

Revised and optimized the technical requirements for indicators such as carbon monoxide, carbon dioxide, inhalable particulate matter, fine particulate matter, formaldehyde, ammonia, ozone, urea, and hydrogen sulfide.

points, unified the precision expression index and professional terminology symbols, added terms and definitions, membrane weighing method for fine particles, high-efficiency liquid formaldehyde The test methods for total volatile organic compounds, benzene, toluene and xylene were updated, and the test methods for redox potential of swimming pool water were deleted.

The volumetric titration method for carbon dioxide and the gas chromatography method for formaldehyde were introduced to further improve the advancement, operability and applicability of the standard and meet the requirements of the The need for hygiene inspection in public places.

GB/T 18204 consists of 6 parts.

- Part 1: Physical indicators. The purpose is to provide the basic principles and requirements for on-site testing of physical indicators in public places.

- Part 2: Chemical indicators. The purpose is to provide a basis for sample collection and laboratory testing of chemical indicators in public places.

These principles and requirements.

- Part 3: Air microbial indicators. The purpose is to provide sample collection and laboratory testing of air microbial indicators in public places.

Basic principles and requirements of testing.

- Part 4: Microbiological indicators of public supplies and utensils. The purpose is to provide microbiological indicators of public supplies and utensils in public places.

Basic principles and requirements for sample collection and laboratory testing.

- Part 5: Central air conditioning and ventilation systems. The purpose is to provide sample collection of indicators of central air conditioning and ventilation systems in public places and basic principles and requirements of laboratory testing.

- Part 6: Technical specifications for health monitoring. The purpose is to standardize the frequency and sample size of health monitoring in public places, quality control, etc.
Technical requirements.

Public Place Hygiene Inspection Methods Part 2: Chemical properties

1 Scope

This document describes the methods for the determination of chemical parameters in indoor air, urea and redox potential in swimming pool water in public places.

This document is applicable to the determination of chemical indicators in indoor air of public places, urea and redox potential in swimming pool water.

The same shall apply to indoor environments such as living rooms.

2 Normative references

GB/T 11742

GB/T 14669

GB/T 16129

GB/T 18883

3 Terms and definitions

The following terms and definitions apply to this document.