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

**中华人民共和国国家标准**

GB/T 6682-2008

Replace GB/T 6682-1992

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**Water for Analytical Laboratory Use—  
Specification and Test Methods**

**分析实验室用水规格和试验方法**

(ISO 3696: 1987, MOD)

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China**

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## Foreword

This standard is modified in relation to ISO 3696:1987 “Water for Analytical Laboratory Use—Specification and Test Methods” (English Edition).

This standard was modified during the adoption of ISO 3696:1987, in consideration of the national conditions of China. Those technical differences have already been incorporated into the text and marked with perpendicular single line on the margin of relevant clauses. Comparison Between chapter and article numbers of this standard and ISO 3696:1987 is listed in Annex A. Technical differences and reasons between this standard and ISO 3696:1987 is listed in Annex B for reference.

This standard replaces; “Water for Analytical Laboratory Use—Specification and Test Methods” GB/T 6682-1992. Compared with GB/T 6682-1992, this standard has the following main changes:

Test report is added (Chapter 8 of this edition).

Annex C of this standard is nonnative; Annex A and Annex B are informative.

This standard is proposed by China Petroleum and Chemical Industry Association

This standard is under the jurisdiction of Chemical Reagent Subcommittee of National Technical Committee on Chemical of Standardization Administration of China (SAC/TC 63/SC 3).

Drafting organization: Sinopharm Chemical Reagent Co., Ltd.

Chief drafting staffs: Chen Haoyun, Chen Hong.

This standard was issued in 1686 for the first time and revised in 1992 for the first time.

# Water for Analytical Laboratory Use-Specification and Test Methods

## 1 Scope

This standard specifies the level, specification, sampling and storage, test methods and test report of water for analytical laboratory use.

This standard is applicable to the water for chemical analysis and inorganic trace analysis tests. Water of different levels may be selected according to the requirements of actual work.

## 2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. For dated reference, subsequent amendments to (excluding correction to), or revisions of, any of these publications do not apply. However, the parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards. For undated references, the latest edition of the normative document referred to applies.

GB/T 601 “Chemical Reagent—Preparations of Standard Volumetric Solutions”

GB/T 602 “Chemical Reagent—Preparations of Standard Solutions for Impurity” (GB/T 602-2002, ISO 6353-1:1982, NEQ)

GB/T 603 “Chemical Reagent—Preparations of Reagent Solutions for Use in Test Methods” (GB/T 603-2002, ISO 6353-1:1982, NEQ)

GB/T 9721 “Chemical Reagent—General Rules for the Molecular Absorption Spectrophotometry (ultraviolet and visible)

GB/T 9724 “Chemical Reagent—General Rule for the Determination of pH” (GB/T 9724-2007, ISO 6353-1:1982, NEQ)

GB/T 9740 “Chemical Reagent—General Method for the Determination of Dry Residue After Evaporation” (GB/T 9740-2008, ISO 6353-1:1982, NEQ)

## 3 Appearance

Water for analytical laboratory use shall be colorless transparent liquid through visual observation.

## 4 Level

Raw water for analytical laboratory use shall be drinking water or water in proper purity.

Water for analytical laboratory use is classified into three levels: level 1 water, level 2 water and level 3 water.

### 4.1 Level 1 Water

Level 1 water is used to the analytical test with strict requirements, including the test with requirements for particles, such as water for high performance liquid chromatography analysis.

Level 1 water may be prepared by level 2 water after distilled by quartz equipment or

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