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

GB/T 6368-2008

**Surface active agents -- Determination of pH of aqueous
solution -- Potentiometric method
(English Translation)**

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Foreword

This standard replaces GB/T 6368-1993 Surface active agents - Determination of pH of aqueous solutions - Potentiometric method.

This standard equivalently adopts ISO 4316.1977 Surface active agents - Determination of pH of aqueous solutions - Potentiometric method.

The main differences between this standard and the previous version.

- Add the Preface;
- Increase the degree of adoption;
- Increase the quantity of measurement samples, so as to be consistent with international standards;
- Add Chapter test report.

This standard was proposed by China Petroleum and Chemical Industry Association.

This standard shall be under the jurisdiction of Chemical Industry Surfactant Standardization

Technical Committee.

Drafting organizations of this standard. Shanghai Dye Institute Ltd., and Zhejiang Real Chemical Group.

Drafters of this standard. Zhuang Yongbin, Huang Weiqing, Wang Weisong, and Meng

Zhaoping.

This standard was first-time released in 1986, and it was first-time revised in 1993.

GB/T 17795-2008

Surface active agents - Determination of pH of aqueous
solution - Potentiometric method

1 Scope

This standard specifies the method of adopting potentiometric method to determine pH of aqueous

solution of surface active agents.

This standard applies to the determination of pH of aqueous solution of surface active agents.

2 Normative References

The following standards contain provisions which, through reference in this standard, constitute provisions of this standard. For dated reference, the subsequent amendments (excluding corrigendum) or revisions of these publications do not apply. However, the parties

who enter into agreement based on this standard are encouraged to investigate the possibility

of applying the latest editions of the standards. For undated references, the latest editions of

the normative document referred to apply.

GB/T 603-2002 Chemical reagent - Preparations of reagent solution for use in test

GB/T 6682-1992 Water for analytical laboratory use - Specification and test methods

3 Principle

Measure the electrode potential difference immersed in an aqueous solution of surface active

agent, expressed in pH value.

4.1 Distilled water. Without carbon dioxide. It shall comply Grade 3 water as specified in

GB/T 6682-1992. Prepare it according to provision 4.1.1.1 in GB/T 603-2002.

4.2 Standard buffer solution. Select 2 solutions from the common standard solutions to

calibrate the potentiometer. Their pH value shall be as near as possible to the expected pH value of the sample solution. In which, the difference BETWEEN 1 of the standard solution AND the expected value must not be greater than 1 pH unit.

5.4 Composite electrode. It is used to replace the glass electrode and reference electrode.

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