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

GB/T 11988-2008

Replacing GB/T 11988-1989

**Surface active agents -- Technical alkane sulfonates --
Determination of mean relative molecular mass and content of
the alkane monosulfonate**

表面活性剂 工业烷烃磺酸盐 烷烃单磺酸盐平均相对分子质量及含量的测定

(English Translation)

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Foreword

This revised standard adopts the International Standard ISO 6845. 1989 "surfactant industry alkane sulfonates alkane sulfonates average single-phase Molecular mass and Determination. " this standard is based on ISO 6845. 1989 re-drafted. Due to the special requirements of the legal requirements and industry to modify the use of the contents of the ISO standard, which identifies the technical differences between a vertical line in terms of their margins involved in the space on the right, and in the appendix of this standard A given this standard and ISO 6845. 1989 technical differences and their list of reasons, for reference.

This standard replaces GB/T 11988-1989 "alkane sulfonate surfactant industry average molecular weight alkanes Monosulphonate and determination "content.

This standard compared with GB/T 11988-1989 main changes are as follows.

--- Increased to determine whether a single alkyl sulfonic acid extraction method completely;

--- Increasing the processing method before the extract into the column;

--- Increased the extraction judgment as water, ethanol and hydrochloric acid ratio is appropriate specific methods;

--- Increased pre-treatment method using an ion exchange column.

Appendix A of this standard is an informative annex.

The standard proposed by China National Light Industry Council.

This standard by the National Standardization Technical Committee surfactant and detergent.

This standard was drafted. National Cleaning Products Quality Supervision and Inspection Center (Taiyuan), China Daily Chemical Industry Institute.

1 Scope

This standard specifies an alkane containing only trace amounts of industrial alkane sulfonates alkane sulfonates single average molecular weight determination and containing Method quantity.

This standard applies to all alkane sulfonic chlorine and alkali metal salts of acylated sulfur oxidation products.

In order to determine the content of paraffin sulfonates single application of direct two-phase titration should know the average molecular weight alkanes single sulfonate. when the determination of the average molecular weight of a typical sample, paraffin single simultaneous determination of salt content of the sample.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 13173-2008 surfactant detergent test method (ISO 607. 1980, ISO 2996. 1974, MOD)
Preparation QB/T 2739-2005 detergent commonly used test methods for analysis of titration (volumetric analysis) with the test solution

3 Terms and Definitions

The following terms and definitions apply to this standard.

In 12 to 20 carbon atoms, straight-chain alkane sulfonic chlorine and sulfur oxides acylated and industrial products in the presence of a single alkali metal sulfonate.

Principle 4

It was dissolved in ethanol test, and the ethanol solution was acidified with hydrochloric acid.

In the liquid - extraction is the extraction with petroleum ether, alkane sulfonic acids into single-phase petroleum ether, alkane sulfonate and sulfate ions remain in Water - alcohol phase, the two can be separated quantitatively.

Petroleum ether was evaporated and dissolved in ethanol by cation exchange column to remove trace amounts of alkali.

With carbonate-free sodium hydroxide solution and effluent, and then dried and weighed to obtain a single alkane sulfonate, an average relative molecular Quality and content.

5 Reagents and materials

Unless otherwise indicated in the analysis using only recognized as analytical reagents and carbon dioxide-free distilled or deionized water or phase purity when the water.

5.1

acetone.

5.2 95% ethanol.

5.3

Ethanol, 50% solution (volume fraction).