

ICS 71.100.40
CCS G 72



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

GB/T 9290-2008

Replacing GB/T 9290-1988

**Surface active agents -- Technical ethoxylated fatty amines --
Method of analysis**

表面活性剂 工业乙氧基化脂肪胺 分析方法
(English Translation)

Issued on: April 1, 2008

Implemented on: October 1, 2008

Issued by: Standardization Administration of China

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Foreword

This standard replaces the national standard GB/T 9290-1988 "surfactant industry ethoxylated fatty amines analytical methods." this standard and ISO 6384. 1981 "surfactant industry ethoxylated fatty amines analysis methods," the degree of non-conformity Equivalent.

This standard and ISO 6384. 1981 is the main differences.

--- International standard "Determination of sulfated ash" section only wrote a number of international standards. This standard is based on China's reality, stated principles, Reagents and materials, equipment and facilities, as well as the results of the analysis step.

--- The International Standard "Water - methanol pH measurement media" section in the 'note' to the contents of the text.

--- The international standard of "total alkalinity, primary amine, secondary amine alkalinity, tertiary" in the title to "total amine value, the value of a primary amine, secondary amine value, Tertiary amine value. " this standard and GB/T 9290-1988 compared to the major differences are as follows.

--- Increasing the test report chapter.

The standard proposed by China Petroleum and Chemical Industry Association.

This standard is under the jurisdiction of Chemical Industry Standardization Technical Committee surfactant.

This standard was drafted. Shanghai Dyestuffs Research Institute Co., Ltd., Zhejiang Real Chemical Group.

Drafters of this standard. Xusu Mei, is Qi Gu, Wangwei Song, Meng Zhaoping.

This standard was first published in 1988.

Surfactant Industry ethoxylated fatty amine Analytical method

1 Scope

This standard specifies the surfactant industry ethoxylated fatty amines analysis. It includes the following determination. Water - measuring methanol pH of the medium Measuring the oxygen content of the vinyl;; set; determining moisture content; determination of sulfated ash; determination of primary amine value, secondary amine value, the value of the distribution of free tertiary Determination of the content of polyethylene glycol; polyethylene glycol test.

This standard applies to flake, block, paste or liquid ethoxylated fatty amine industrial analysis, but does not contain any substance and manufacturer-independent quality. It does not apply ethoxylated amines and amide derivatives of imidazoline class.

Analysis of the product structure of the general formula.

(CH₂CH₂O) m1 H

(CH₂CH₂O) H-shaped

R --- saturated or unsaturated aliphatic group, a chain length of 8 to 22 carbon atoms.

M1 + --- shape may take any value in accordance with the product's use, but it is usually 1-50 change.

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 Study whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 603-2002 Chemical Reagent Test Methods - Preparations with Laboratory use specifications and test methods GB/T 6682-1992 Analysis GB/T 7383 Determination of non-ionic surfactants hydroxyl value (GB/T 7383-2007, ISO 4326. 1980, MOD) GB/T 7385 surfactant polyethoxylated derivatives oxyethylene content - iodometric method (GB/T 7385-1994, eqv ISO 2270. 1989) GB/T 11275 Surface active agents Determination of water content (GB/T 11275-2007, ISO 4317:1991, MOD) this method is applicable to insoluble or poorly water-soluble ethoxylated fatty amines, also applies to the water-soluble ethoxylated fatty amines.

3.1 Principle

Electric methanol solution, insert the glass electrode and calomel electrode, potentiometric measurement between them - contain ethoxylated fatty amine in water Difference.

3.2 Reagents or materials

3.2.1

Distilled water. carbon dioxide-free, in line with GB/T 6682-1992 in three water requirements, according to GB/T 603-2002 in

4.1.1.1 Preparation of the provisions.

3.2.2

Methanol. AR.

3.2.3

Potassium chloride.

3.2.4 Standard solution

Methanol solution 3.2.4.1 acetate