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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3819-2014

Determination of 2-(2-butoxyethoxy) ethanol in liquid abstergent - Gas chromatography

液态清洁用品中二乙二醇单丁醚的测定 气相色谱法

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China, Ningbo Entry-Exit-Entry Inspection and People's Republic of China Fujian Quarantine Bureau.

1 Scope

This standard specifies the liquid cleaning products diethylene glycol monobutyl gas chromatographic method content.

This standard applies to liquid cleaning products diethylene glycol monomethyl ether determination, the detection limit of 10mg/kg.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 8170 repair value expressed about the rules and limit values and judgment

3 Method summary

After the sample was dissolved with ethanol, by gas chromatography (FID) assay, double column retention time qualitative, external standard.

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4 Reagents and materials

Unless otherwise specified, the reagents used were of analytical grade.

4.1
ethanol.

4.2
Diethylene glycol monobutyl ether. CAS. 112-34-5, purity >=99.0%.

4.3
stock standard solution (1000μg/mL). Weigh 0.1g diethylene glycol monobutyl ether (accurate to 0.1mg), anhydrous ethanol to 100mL, get the standard stock solution.

4.4
standard solution. were taken 0.1mL, 0.5mL, 1.0mL and 2.0mL of standard stock solution (4.3), with anhydrous ethanol to 10mL, to give a concentration of 10μg/mL, standard work 50μg/mL, 100μg/mL and 200μg/mL solution series.

5 Apparatus

5.1
Gas chromatograph. with a flame ionization detector (FID).

5.2
Balance. a sense of the amount of 0.1mg.

5.3
vortex mixer.

5.4
glass flask. 10mL, A grade.

6 Sample

After mixing the sample, with the balance (5.2) Weigh 1g (accurate to 0.1mg) in a volumetric flask (5.4) and anhydrous ethanol (4.1), set the volume to 10mL, using a vortex mixer (5.3) mixed, tested.

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