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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3870-2014

Determination of monochloroacetic acid in drinks and alcoholic beverages for export - GC method

出口饮料和酒中-氯乙酸含量的测定 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.

Please note that some of the content of this document may involve patents. Distribution of this document Institutions do not assume the responsibility to identify these patents.

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

This standard was drafted. People's Republic of China Fujian Exit Inspection and Quarantine.

1 Scope

This standard specifies the method for determination of export of beverages and wine monochloroacetic acid content.

This standard applies to mineral water, tea drinks, milk drinks, fruit juice, cola, beer, wine, rice wine, the acid content of a gas chromatography Spectral Method.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated edition applies to this document.

For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 analysis.

Principle 3

Under acidic conditions (pH 4 Reagents and materials Unless otherwise indicated, the reagents used were of analytical grade water as a water GB/T 6682 regulations.

4.1 potassium ferrocyanide.

4.2 zinc acetate.

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4.3 acetic acid.

4.4 sulfuric acid (rho20 = 1.84g/mL). pure class distinctions.

4.5 Methanol. HPLC grade.

4.6 over anhydrous sodium. 650 °C burning 4h, cooled in a desiccator to room temperature and stored in a sealed bottle for use.

4.7 sodium bicarbonate.

4.8 1,2-dibromopropane (1,2-DBP).

4.9 methyl tert-butyl ether. HPLC grade.

4.10 potassium ferrocyanide solution. Weigh 106.0g potassium ferrocyanide (4.1), dissolved in water and diluted to 1000mL.

4.11 zinc acetate solution. Weigh 220.0g zinc acetate (4.2), before adding 30mL glacial acetic acid (4.3) were dissolved, diluted with water to 1000mL.

4.12 internal standard extract. Weigh 15.0mg internal standard 1,2-DBP (4.8), methyl tert-butyl ether (4.9) volume to 50mL, formulated as Internal standard stock solution at a concentration of 300mg/L; then take 50μL of internal standard stock solution with methyl tert-butyl ether volume to 50mL, formulated as an internal standard and Crafts Take solution at a concentration of 300μg/L.

Sulfate 4.13 - methanol solution (19 volume). pipette 5mL of sulfuric acid (4.4) was slowly added dropwise prefilled with 45mL methanol (4.5) in Ice water bath 100mL Erlenmeyer flask until the temperature cooled to room temperature to use, temporary use existing service.

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