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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3310-2012

Import and export textiles. Determination of formaldehyde. Gas chromatography method

进出口纺织品 甲醛的测定 气相色谱法

(English Translation)

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Preview: page 1 of 3 shown, 5 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3310-2012

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Table of Contents

Foreword

1 Scope

2 Normative references

4 Reagents

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 Jiangsu Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the use of gas chromatography - electron capture detector (GC-ECD) Textiles - Determination of free formaldehyde or formaldehyde releasing hydrolysis the method of content.

This standard applies to the formaldehyde content of 5mg/kg to textile 1000mg/kg between.

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/2912.1-2009 Textiles - Determination of formaldehyde T - Part 1. Free and hydrolyzed formaldehyde (water extraction method) GB/2912.2-2009 Textiles - Determination of formaldehyde T - Part 2. Released formaldehyde (vapor absorption method) Laboratory use specifications and test methods GB/T 6682 Analysis GB/T 8170 repair value expressed about the rules and limit values and judgment Principle 3 After sample extraction or water vapor absorption process, extract with 2,4-dinitrophenylhydrazine derivative, produced by the appropriate 2,4-Dinitrophenylhydrozones Solvent extraction and gas chromatography - electron capture detector (GC-ECD) measured against a standard curve, calculate the sample's armor Aldehyde content.

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4 Reagents

4.1

Unless otherwise indicated, the reagents used in the analysis were of analytical grade, all with water are the three water GB/T 6682 stipulated.

4.2

Cyclohexane. HPLC grade.

4.3

Concentrated hydrochloric acid. pure class distinctions.

4.4

formaldehyde solution. a concentration of about 37% (by mass).

4.5

Derivative reagent. take 0.1g (accurate to 0.01g) of 2,4-dinitrophenylhydrazine (referred to as DNPH, CASN o. 119-26-6) and 24mL of concentrated hydrochloric acid (4.3) is dissolved in an appropriate amount of water, not more than 60 °C in a water bath to dissolve. After cooling water volume to 100mL, Shake, stopper spare.

NOTE: This solution is unstable and should be using now.

4.6

Preparation of the formaldehyde standard stock solution. lessons 3.8mL formaldehyde solution (4.4) in 1L brown volumetric flask, dilute to the mark, as as the standard stock solution (formaldehyde content of about 1500μg/mL), according to GB/T 2912.1-2009 Appendix A or Appendix B of its quasi-calibration method Determined concentration.

NOTE: The liquid is stored in the refrigerator at 4 °C can be stored for 6 weeks.

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