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ICS 83.140
CCS G40

SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3815-2014

Determination of tris (2-chloroethyl) phosphate in the rubber and plastic products. Gas chromatography-mass spectrometry method

橡胶和塑料制品中磷酸三（2-氯乙基）酯的测定 气相色谱-质谱法

(English Translation)

Issued on: January 13, 2014 **Implemented on: August 1, 2014**

Issued by: General Administration of Customs

Preview: page 1 of 4 shown, 6 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword
1 Scope
2 Normative references
3 Method summary
4 Reagents and materials
5 Apparatus

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 Ningbo Exit Inspection and Quarantine.

1 Scope

This standard specifies the rubber and plastics tris (2-chloroethyl) ester gas chromatography - mass spectrometry method.

This standard applies to the determination of the ester rubber and plastic products tris (2-chloroethyl) in.

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 ultrasonic extraction with ethyl acetate samples by gas chromatography - mass spectrometry measurement and validation, external standard.

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4 Reagents and materials

Unless otherwise stated, use only reagents of analytical grade and above.

4.1
ethyl acetate.

4.2
tris (2-chloroethyl) phosphate standard substance (CAS Number. 115-96-8). purity >=98%.

4.3
tris (2-chloroethyl) phosphate standard stock solution (1mg/mL). Weigh accurately 0.1g (accurate to 0.1mg) phosphate, tris (2-chloroethyl Yl) ester standards (4.2) with ethyl acetate (4.1) and dilute to 100mL volumetric flask, and mix. Tris (2-chloroethyl) phosphate standard stock solution Liquid should be stored at 4 °C, storage period of six months.

4.4
tris (2-chloroethyl) phosphate standard solution. accurately Pipette the appropriate amount of tris (2-chloroethyl) phosphate standard stock solution (4.3), with ethyl (4.1) progressively diluting the concentration of 0.1μg/mL, 0.5μg/mL, 1.0μg/mL, 2.0μg/mL, 5.0μg/mL and 10μg/mL of Series of standard working solution. Tris (2-chloroethyl) ester standard solution should be stored at 4 °C, storage period of three months.

5 Apparatus

5.1
Gas chromatography - mass spectrometry (GC-MSD). with EI source.

5.2
freezer crusher. With 2mm sieve.

5.3
ultrasonic extractor. ultrasonic frequency 53Hz.

5.4
Analysis of balance. a sense of the amount of 0.1mg.

5.5
centrifuge.

5.6
centrifuge tubes. 15mL, stoppered.

Preview: page 3 of 4 shown, 6 in the full document. Complete English PDF, instant download:
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5.7
Single-marking pipette. 10mL, A grade.

5.8
needle filter (nylon). 0.45μm.

Preview: page 4 of 4 shown, 6 in the full document. Complete English PDF, instant download:
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