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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3787-2014

Determination of TEPA and 5 phosphate flame retardants in textiles for import and export - LC-MS/MS method

进出口纺织品中三-（1-氮杂环丙基）氧化膦和5种磷酸酯类阻燃剂的测定 液相色谱-串联质谱法

(English Translation)

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Preview: page 1 of 3 shown, 11 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3787-2014

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Table of Contents

Foreword

1 Scope

2 Normative references

4 Reagents and materials

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 Zhejiang Entry-Exit Inspection and Quarantine Bureau Technology Center.

1 Scope

This standard specifies the textile Three - (l-aziridinyl) phosphine oxide and 5 phosphate flame retardants (see Appendix A), liquid chromatography Spectrum - tandem mass spectrometry.

This standard applies to all kinds of textiles and its products.

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.

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 the samples were extracted with methanol, the extract was concentrated and after constant volume by liquid chromatography - tandem mass spectrometry, external standard.

4 Reagents and materials

Unless otherwise specified, the reagents were HPLC grade water line with a chromatographic water GB/T 6682 regulations.

Preview: page 2 of 3 shown, 11 in the full document. Complete English PDF, instant download:
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4.1
methanol.

4.2
acetonitrile.

4.3
ammonium acetate.

4.4
ultra-pure water.

4.5
Sodium chloride (AR).

4.6
ammonium acetate - acetonitrile in water (5mmol/mL). Weigh accurately 0.3850g ammonium acetate (4.3) and 10mL of acetonitrile (4.2), with a water-soluble Solution, transferred to a 1000mL volumetric flask, water volume.

4.7
three - (l-aziridinyl) phosphine oxide (of TEPA) standard. purity >=97.0%.

4.8
tris (2-dichloropropyl) phosphate (of TCPP) standard. purity >=99.5%.

4.9
tricalcium phosphate ([beta] chloroethyl) phosphate (the TCEP) standard. purity >=98.5%.

4.10
phosphate, tris (2,3-dibromopropyl) phosphate (TRIS) standard. purity >=95.0%.

4.11
tris (1,3-dichloro isopropyl) ester (TDCP) standard. purity >=99.0%.

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