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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3228-2012

Determination of organophosphrous flame retardants in import and export textiles

进出口纺织品中有机磷阻燃剂的检测方法

(English Translation)

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6 III - (2,3-dibromopropyl) phosphate (TRIS) > 97% acetone 920.0

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, Shenzhen CIQ, Shenzhen Inspection and Quarantine Science Research Institute.

1 Scope

This standard specifies the import and export of textiles Three - (l-aziridinyl) phosphine oxide, tris - (2-chloroethyl) phosphate, tris - (1,3-dichloropropane Yl) phosphate, bis - (2,3-dibromopropyl) phosphate, tris - (o-tolyl) phosphate, tris - (2,3-dibromopropyl) phosphate, 6 organophosphorous Flame retardants (see Appendix A) content by gas chromatography - flame photometric detector (GC-FPD), gas chromatography/mass spectrometry - selected ion monitoring (GC/MS-SIM), gas chromatography/mass spectrometry (GC/MS-MS) spectrometry.

This standard applies to textile materials and products to detect organophosphorus flame retardant.

Principle 2

Sample by ultrasound or microwave with acetone extract was concentrated to constant volume, gas chromatography - flame photometric detection method (GC-FPD), or gas chromatography/mass spectrometry - selected ion monitoring method (GC/MS-SIM), or gas chromatography/tandem mass spectrometry (GC/MS-MS) analysis, external standard Statutory amount.

3 Reagents and materials

Unless otherwise stated, use only recognized as analytical reagents.

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3.1
acetone. chromatography.

3.2
Methanol. chromatographically pure.

3.3 6 kinds of organic phosphorus flame retardant standard substance. purity requirements in Table 1.

Table 16 organophosphorus flame retardants stock standard solution

No. Name retardant purity solvents Reference concentration μg/mL A three - (l-aziridinyl) phosphine oxide (TEPA) > 97% Methanol 3868.0 2 three - (2-chloroethyl) phosphate (TCEP) > 99% Methanol 2968.0

3 III - (1,3-dichloro-propyl) phosphate (TDCP) > 99% methanol 2600.0

4 II - (2,3-dibromopropyl) phosphate (DDBPP) > 90% acetone 520.0

5 III - (o-tolyl) phosphite (TOCP) > 96% methanol 2372.0

6 III - (2,3-dibromopropyl) phosphate (TRIS) > 97% acetone 920.0

3.4 standard stock solution. accurately weigh the right amount of each organic phosphorus flame retardant standards, the use of solvent specified in Table 1 were formulated into phase it should be standard stock solution concentration.

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