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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3791-2014

Determination of the primary aromatic amines in the electrical and electronic products. High performance liquid chromatography-mass spectrometry method

电子电气产品中芳香族伯胺的测定 液相色谱-质谱法

(English Translation)

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Preview: page 1 of 4 shown, 7 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

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 Shandong Entry Inspection and Quarantine Bureau, People's Republic of China Guangdong Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the electrical and electronic products, 26 kinds of aromatic primary amine liquid chromatography - mass spectrometry.

This standard applies to the determination of electrical and electronic components in plastic primary aromatic amines.

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

3 Method summary

The sample was dissolved ultrasound organic solvent with methanol to precipitate the polymer matrix, and the extract was concentrated and purified, liquid chromatography - mass spectrometry (LC-MS) Measurement and validation, external standard.

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4 Reagents and materials

Unless otherwise indicated, the reagents used were of analytical grade should be. Water is in line with GB/T 6682 provided a water.

4.1
sodium hydroxide.

4.2
acetone. chromatography.

4.3
dichloromethane. chromatography.

4.4
tetrahydrofuran. chromatography.

4.5
Methanol. chromatographically pure.

4.6
acetonitrile. chromatography.

4.7
hexane. chromatographically pure.

4.8
hydrochloric acid (rho = 1.38g/mL ~ 1.40g/mL). pure class distinctions.

4.9
aromatic primary amine standard. purity of greater than or equal to 98%, see Appendix A.

4.10
formic acid. 88%.

4.11
hydrochloric acid solution. 4mol/L.

4.12
Sodium hydroxide solution. 4mol/L.

4.13
methanol - water mixed solution (11 volume). an equal volume of methanol and water miscible.

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4.14
formic acid. volume fraction of 0.1%.

4.15
standard stock solution. namely, accurately weighed amount of aromatic primary amine standard, prepared in methanol concentration of 1000mg/L Standard stock solution and placed in a brown bottle frozen, shelf life of six months.

4.16
matrix standard solution. necessary extract with a blank sample standard stock solution was diluted to the appropriate concentration of the matrix standard work as a solution. Reference linear range. 0.25mg/L ~ 10mg/L.

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