Chinastandards.org

ICS 29.020
CCS L10

SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3467.1-2013

Determination of polychlorinated naphthalenes in electrical and electronicproducts. Gas chromatorgaphy-mass spectrometry

电子电气产品中多氯萘的测定 气相色谱-质谱法

(English Translation)

Issued on: March 1, 2013 **Implemented on: September 16, 2013**

Issued by: General Administration of Customs

Preview: page 1 of 3 shown, 6 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3467-1-2013

Chinastandards.org

Table of Contents

Foreword

1 Scope

2 Method summary

3 Reagents and materials

4 Instruments and equipment

5 Sample

Foreword

This section SN/T Section 13467 of.

This section drafted in accordance with GB/T 1.1-2009 given rules.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

This section is responsible for drafting unit. People's Republic of China Guangdong CIQ.

1 Scope

SN/T 3467 provisions of this part of the electrical and electronic products, polychlorinated naphthalene content by gas chromatography - mass spectrometry method.

This section applies to the determination of polychlorinated naphthalene polymer components in electrical and electronic products.

2 Method summary

Using toluene as the extraction solvent for sample extraction, and the extract was subjected to silica gel SPE column purification, concentrated gas Chromatography - mass spectrometry detection, external standard.

3 Reagents and materials

Preview: page 2 of 3 shown, 6 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3467-1-2013

3.1
Toluene. chromatography.

More than 3.2 chloronaphthalene. Standard (purity >=99%), or known the exact concentration of certified reference solution.

3.3
stock standard solution. Accurately weigh an appropriate amount of polychlorinated naphthalene standards, or certified reference solution Pipette an appropriate volume accurately placed 25mL Volumetric flask with toluene and dissolved to prepare a concentration of standard stock solution 200mg/L of. The solution may be sealed at 4 °C for a month.

3.4
standard solution. Pipette appropriate volume of each stock standard solution (3.3), toluene (3.1) progressively diluting the concentrations of 1mg/L, 5mg/L, 10mg/L, 20mg/L, 50mg/L polychlorinated naphthalene series mixed standard working solution.

3.5
silica SPE column. 3mL/500mg, before use with 5mL toluene activation.

4 Instruments and equipment

4.1
Gas chromatography - mass spectrometry (GC-MS), equipped with electron impact ionization (EI).

Microwave Extractor 4.2. with polytetrafluoroethylene (PTFE) core magnetic stirrer, rated power not less than 200W.

4.3
vacuum rotary evaporator.

4.4
Freezer Mill.

4.5
Balance. a sense of the amount of 0.1mg.

5 Sample

First samples cut to a particle size of not more than 5mm, and then frozen in liquid nitrogen, the refrigerating grinder (4.4) will grind to a sample the maximum size of not more than 1mm. Mixing, into a clean container, dry place at room temperature.

Preview: page 3 of 3 shown, 6 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3467-1-2013