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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3818-2014

Determination of phthalic acid esters in pressure sensitive adhesive - High performance liquid chromatography-mass spectrometry

压敏胶中邻苯二甲酸酯的测定 液相色谱-质谱法

(English Translation)

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

Issued by: General Administration of Customs

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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 CIQ.

1 Scope

This standard specifies the pressure sensitive adhesive dimethyl phthalate, diethyl phthalate, di-iso-butyl phthalate Dibutyl phthalate, butyl benzyl phthalate, di (2-ethylhexyl) phthalate, di-n-octyl phthalate, diisononyl Phthalate, diisodecyl phthalate liquid chromatography - mass spectrometry.

This standard applies to the determination of the pressure sensitive adhesive of 9 phthalates.

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 6682 analytical laboratory use specifications and test methods (ISO 3696)

3 Method summary

Sample was dissolved in ethyl acetate ultrasound with methanol to precipitate the polymer, filtered supernatant by liquid chromatography - mass spectrometer and validation, external standard Statutory amount.

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4 Reagents and materials

Unless otherwise specified, use only analytical reagent. The water used in line with GB/T 6682 provided a water.

4.1
Methanol. chromatographically pure.

4.2
ethyl acetate. chromatography.

4.3
acetonitrile. chromatography.

4.4
dimethyl phthalate (DMP, CAS number. 131-11-3). purity >=99.5%.

4.5
diethyl phthalate (DEP, CAS number. 84-66-2). purity >=99.0%.

4.6
isobutyl phthalate (DIBP, CAS number. 84-69-5). purity >=98.7%.

4.7
dibutyl phthalate (DBP, CAS number. 84-74-2). purity >=99.0%.

4.8
phthalate, butyl benzyl phthalate (BBP, CAS Number. 85-68-7). purity >=97.2%.

4.9
bis (2-ethylhexyl) phthalate (DEHP, CAS Number. 117-81-7). purity >=99.5%.

4.10
phthalate, di-n-octyl phthalate (DNOP, CAS number. 117-84-0). purity >=99.5%.

4.11
diisononyl phthalate (DINP, CAS number. 28553-12-0). purity >=99.5%.

4.12
diisodecyl phthalate (DIDP, CAS number. 26761-40-0). purity >=99.5%.

4.13
standard stock solution (1000mg/L). Weigh accurately phthalate standards 0.05g (accurate to 0.1mg) in 50mL capacity Flask were dissolved in methanol (4.1) and dilute to the mark, placed 4 °C refrigerator spare.

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4.14

matrix standard solution. samples of phthalate-free extract was prepared in accordance with 6.2 negative samples of different matrices. Minute Do not accurately Pipette 9 standard stock solution (4.13) in the same flask, with a negative sample extract and diluted to volume. Formulated as a standard solution

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