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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3105-2012

Determination of phthalic acid esters in waterborne coatings for import and export. High performance liquid chromatography

进出口水性涂料中邻苯二甲酸酯的测定 高效液相色谱法

(English Translation)

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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 a high performance liquid chromatographic method aqueous coating 11 phthalates (see Appendix A),.

This standard applies to the determination of 11 water-based paint in 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.

Laboratory use specifications and test methods GB/T 6682 Analysis

3 Method summary

The sample was dried over anhydrous sodium purify water treatment, extracted with methanol, after the extract was filtered, washed with a diode array detector efficiency Liquid chromatography (HPLC-DAD) detection, external standard.

4 Reagents and materials

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

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4.1
Methanol. chromatographically pure.

4.2
acetonitrile. chromatography.

4.3
anhydrous sodium. 400 °C drying 4h, cooled to room temperature in a desiccator, placed after 12h use.

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

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

Dipropyl phthalate 4.6 (DPRP). purity >=98.8% (CAS Number. 131-16-8).

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

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

Diamyl phthalate 4.9 (the DAP). purity >=99.5% (CAS Number. 131-18-0).

4.10
ethylhexyl phthalate (DHP). purity >=98.0% (CAS Number. 84-75-3).

4.11
bis (2-ethylhexyl) phthalate (DEHP). purity >=99.5% (CAS number. 117-81-7).

4.12
phthalate, di-n-octyl phthalate (DNOP). purity >=99.5% (CAS number. 117-84-0).

4.13
diisononyl phthalate (DINP). purity >=99.5% (CAS Number. 28553-12-0).

4.14
phthalate, diisodecyl phthalate (DIDP). purity >=99.5% (CAS Number. 26761-40-0).

4.15
standard stock solution (1000μg/mL). Weigh accurately various phthalates standards 0.05g (accurate to 0.1mg) in 50mL volumetric flask, and dissolved in methanol to volume, placed 4 °C refrigerator spare.

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4.16

standard solution. accurate Pipette stock standard solution (4.15) 0.05mL, 0.1mL, 0.5mL, 1mL, 2.5mL, 5.0mL in a 10mL volumetric flask, diluted with methanol and set the volume to the mark. This standard solution concentration of phthalic acid esters, respectively of 5μg/mL, 10μg/mL, 50μg/mL, 100μg/mL, 250μg/mL, 500μg/mL.

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