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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3803-2014

Determination of anilines additives in adhesives used in building for import and export

进出口建筑用粘接剂中苯胺类添加剂的测定

(English Translation)

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Preview: page 1 of 3 shown, 7 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword

1 Scope

3 Reagents and materials

4 Instruments and equipment

5 Step, Analysis

5.1 Extraction

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, Xiamen Entry-Exit Inspection and Quarantine Bureau Technology Center.

1 Scope

This standard specifies the import and export of three buildings with an adhesive additive aniline (N, N- dimethylaniline, N, N- diethylaniline, benzene Amine) content by gas chromatography - mass spectrometry (GC-MS) and gas chromatography (GC). Wherein the gas chromatography - mass spectrometry for the arbitration law.

This standard applies to the import and export construction adhesive N, N- dimethylaniline determination, N, N- diethylaniline and aniline contents.

Principle 2

Sample ultrasonic ethanol extraction, after extraction was filtered by gas chromatography - mass spectrometry and gas chromatography, external standard.

3 Reagents and materials

3.1
ethanol. chromatography.

3.2
Aniline additive standards. A table in Appendix A.1.

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3.3
standard stock solution (1000mg/L). Weigh accurately three kinds of aniline additive standards each 0.1g (accurate to 0.0001g), placed 100mL flask with ethanol to the mark.

3.4
standard solution. Pipette appropriate amount of standard stock solution (3.3), diluted to standard working solution with a suitable concentration of ethanol (3.1).

3.5
The organic phase filter. 0.22μm.

4 Instruments and equipment

4.1
Gas chromatograph with mass detector.

4.2
Gas chromatograph equipped with a flame ionization detector.

4.3
vortex mixer.

4.4
ultrasonic cleaner (power >=220W).

4.5
desktop centrifuge. speed of not less than 4000r/min.

4.6
Electronic balance. a sense of the amount of 0.1mg.

5.1 Extraction

Said sample after mixing learn about 0.5g (accurate to 0.0001g), placed in 10mL tube with a stopper colorimetric with ethanol (3.1) diluted to the mark degree. After mixing in a vortex mixer (4.3), the ultrasonic extraction 15min, transferred to a 10mL centrifuge tube with a stopper to 4000r/min speed 8min centrifugation, the supernatant using 0.22μm membrane organic (3.5) was filtered, the filtrate gas chromatography - mass spectrometry and gas chromatography.

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