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INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

SN/T 3361-2012

Determination of organotin compounds in timber and wood products. Gas chromatography-mass spectrometry

木材及木制品中有机锡化合物的测定 气相色谱-质谱法

(English Translation)

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Foreword

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

Please note that some of the content of this document may involve patents. Distribution of this document Institutions do not assume the responsibility to identify these patents.

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 wood and wood products in the organic tin compounds by gas chromatography - mass spectrometry (GC-MS) spectrometry.

This standard applies to wood and wood products in monobutyltin (MBT), dibutyltin (DBT), tributyltin (TBT), triphenyltin Determination (TPhT) content.

This standard does not apply to food contact wood and wood products.

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 Principle 3 Ethanol as a solvent, ultrasonic extraction sample organic tin extraction solution after sodium borate tetraethyl derivatized with hexane extraction have Organotin derivatives in GC-MS measurement and validation, external standard.

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4 Reagents and materials

Unless otherwise specified, use only analytical reagents, test water should be consistent with a water GB/T 6682 stipulated.

4.1
tetraethyl sodium borate. Purity >=98%.

4.2
anhydrous sodium. Take appropriate amount of anhydrous sodium sulfate, burning at 650 °C 4h, cooled storage in a desiccator.

4.3
ethanol. chromatography.

4.4
hexane. chromatographically pure.

4.5
acetic acid - sodium acetate buffer solution. preparation of 1mol/L sodium acetate solution was adjusted with acetic acid to pH = 5.0.

4.6
tetraethyl sodium borate solution (2%). After quickly weighed in a beaker with deionized water, placed in a brown flask, now with the existing, in 4 °C stored.

Warning. flammable sodium tetraethyl borate, sodium borate tetraethyl about job security, refer to the relevant chemical safety manual or safety supplier Full warning indicator.

4.7
organotin Standard. Purity >=98%, see Appendix A.

4.8
organotin standard stock solution. the standard concentration of the stock solution concentration of organotin cation. Accurately weighed amount of organotin standards (4.7), with a small amount of methanol dissolved and diluted to volume in a brown flask, the concentration of 1000μg/mL, method of preparation see Appendix B.

Standard stock solution should be placed in refrigerator at 4 °C dark preservation using valid for six months.

4.9
Organotin standard solution. According to need real samples, diluted with methanol to a mixed standard working solution of appropriate concentration, linear in the range of 0.1μg/mL ~ 20μg/mL. Standard working solution should be placed in refrigerator at 4 °C

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dark preservation, use is valid for one month.

4.10

filter. pore size 0.22μm, the organic phase.

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