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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3376-2012

Determination of organochlorine pesticides in timber and wood products. Gas chromatography method

木材及木制品中有机氯杀虫剂的测定 气相色谱法

(English Translation)

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Foreword

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

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 BHC alpha-, beta- BHC, gamma-BHC, delta- BHC, heptachlor, aldrin, chlordane, dieldrin Agent, 2,4'-DDT, 4,4'-DDT gas chromatographic method for 10 organochlorine pesticides.

This standard applies to wood and wood products Determination of organochlorine pesticides.

Principle 2

The sample was acetone - n-hexane mixed solvent ultrasonic extraction and concentrated by electron capture detector with a gas chromatograph (GC-ECD) Determination, external standard.

3 Reagents and materials

Unless otherwise specified, use only analytical reagent.

3.1

over anhydrous sodium sulfate, the content of >=99%.

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3.2
acetone. chromatography.

3.3
hexane. chromatographically pure.

3.4
acetone - n-hexane mixed solution. acetone (3.2) n-hexane (3.3) = 19.

3.5
organochlorine Standard. Purity >=97%, see Table A.1.

3.6
standard stock solution. namely, accurately weighed amount of each organic chlorine standards with acetone - n-hexane mixed solution (3.4) were formulated A concentration of 1000μg/mL standard stock solution. Cold storage preservation, valid for 12 months.

3.7
standard solution. n-hexane (3.3) standard stock solution (3.6) into a serial dilution series of mixed standard applicable concentration needed Quasi working solution, the linear range of the reference 0.005μg/mL ~ 0.5μg/mL.

4 Instruments and equipment

4.1
Gas chromatograph. with ECD detector.

4.2
Analysis of balance. a sense of the amount of 1mg and 0.1mg.

4.3
Ultrasonic cleaning. the operating frequency of 40kHz.

4.4
centrifuge.

4.5
Cutting Mill or the like.

4.6
heart-shaped bottle.

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4.7
rotary evaporator.

4.8 40mL glass vial.

4.9
Membrane. PTFE material, 0.22μm.

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