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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3551-2013

Food contact materials. Paper, regenerated fibre. Determination of benzophenone and 4-methylbenzophenone. Gas chromatography-mass spectrometer

食品接触材料 纸、再生纤维材料 二苯甲酮和4-甲基二苯甲酮的测定 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. Release mechanism of the present document does not assume responsibility for the identification of 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 Ningbo Exit Inspection and Quarantine.

1 Scope

This standard specifies the paper, fibrous material benzophenone and 4-methyl benzophenone regeneration gas chromatography - mass spectrometry.

This standard applies to paper, fibrous material benzophenone and 4-methyl benzophenone measured regeneration.

2 Method summary

Paper, recycled fiber material benzophenone and 4-methyl benzophenone After ultrasonic extraction, silica gel column purification, using gas chromatographic Line separation, mass spectrometry detector, internal standard.

3 Reagents and materials

3.1

benzophenone (C13H10O, CAS number. 119-61-9). purity of greater than 99.0% (mass fraction).

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3.2 4-methyl benzophenone (C14H12O, CAS number. 150-76-5). purity of greater than 99.0% (mass fraction).

3.3 4-fluoro-benzophenone (C13H9FO, CAS number. 345-83-5). purity of greater than 98.0% (mass fraction).

3.4
dichloromethane. chromatography.

3.5
acetonitrile. chromatography.

3.6
hexane. chromatographically pure.

3.7
stock standard solution (100mg/L). Weigh benzophenone (3.1), 4-methyl-benzophenone (3.2) and 4-fluoro-benzophenone (3.3) each 10mg in 100mL flask with dichloromethane to volume and stored at 0 °C ~ 4 °C sealed from light.

3.8 4-methyl-benzophenone and benzophenone intermediate mixed stock solution (10mg/L). exact Pipette 5.0mL benzophenone are standard stock Preparation of solution (3.7) and 4-methyl benzophenone standard stock solution (3.7) in 50mL volumetric flask to volume with methylene chloride.

3.9 4-fluoro benzophenone intermediate stock solution (10mg/L). exact Pipette 5.0mL4-fluorobenzophenone standard stock solution (3.7) in 50mL Flask with dichloromethane to volume.

3.10
standard solution. Pipette accurately benzophenone and 4-methyl benzophenone intermediate mixed stock solution (3.8) 200μL, 400μL, 600μL, 800μL, 1000μL in 10mL volumetric flask, were added in each flask 600μL4- fluoro benzophenone intermediate reserve Solution (3.9), and finally with dichloromethane to volume.

3.11
silica gel column. 1000mg/6mL or equivalent person.

4 Instruments and equipment

4.1
GC - MS.

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4.2
rotary evaporator.

4.3
Solid phase extraction device.

4.4
ultrasonic cleaning machine, 40kHz.

4.5
Analysis of balance. a sense of the amount of 0.1mg.

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