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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3618.2-2013

Determination of acetophenone in plastic and rubber materials. Part 2: Gas chromatography-mass method

塑胶材料中苯乙酮含量的测定 第2部分： 气相色谱-质谱联用法

(English Translation)

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Foreword

SN/T 3618 "plastic material acetophenone determination" is divided into two parts.

--- Part 1. High performance liquid chromatography;

--- Part 2. Gas chromatography - mass spectrometry.

This section SN/T 3618 Part 2.

This section drafted in accordance with the rules of GB/T 1.1-2009 and GB/T 20000.4-2009 given.

Please note that some of the content of this document may involve patents. This document issuing authority does not bear the responsibility to identify these patents.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

1 Scope

SN/T 3618 provisions of this section by gas chromatography - mass spectrometer plastic material acetophenone content approach.

This section applies to ethylene - vinyl acetate copolymer (referred to as EVA), polyvinyl chloride (referred to as PVC) and other plastic materials acetophenone content Determination.

2 Method summary

Sample ultrasonic extraction with dichloromethane, the extract was concentrated after constant volume by gas chromatography - mass spectrometer measurement, the full scan

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detection into Line qualitative and select ions quantified by external standard.

3 Reagents and materials

Unless otherwise stated, use only reagents of analytical grade or higher purity.

3.1
Methanol. chromatographically pure.

3.2
methylene chloride, after checking the existence of matter without interference.

3.3
acetophenone. Purity >=98% (CAS Number. 98-86-2).

3.4
standard stock solution. accurately weighed amount of acetophenone standards with methanol (3.1) formulated in a concentration of about 1000μg/mL standard Quasi stock solution.

3.5
Standard working solution. methylene chloride standard stock solution (3.4) as required by serial dilution to a concentration of 0.5μg/mL, 1.0μg/mL, 5.0μg/mL, 10.0μg/mL, 20.0μg/mL of standard working solution.

4 Instruments and equipment

4.1
Gas chromatography - mass spectrometry. with EI source.

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

4.3
ultrasonic generator. Operating frequency 40kHz.

4.4
centrifuge.

4.5
Reactor. a tube with a screw cap (polytetrafluoroethylene gaskets), about 50mL, made of hard glass.

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4.6
rotary evaporator.

5.1 Sample Preparation

Take a representative sample, breaking with the appropriate tools to 3mm x 3mm or less, mix and set aside.

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