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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3124-2012

Determination of phenols presservatives in rubber and rubber products. High performance liquid chromatography

橡胶及橡胶制品中酚类防霉剂的测定 高效液相色谱法

(English Translation)

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Foreword

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

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 rubber and rubber products phenolic fungicide (pentachlorophenol, trichlorophenol, o-phenylphenol, nitrophenol Attachment Record A) HPLC detection method.

This standard applies to rubber and rubber products pentachlorophenol, trichlorophenol, o-phenylphenol, determination of nitrophenol.

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

3 Method summary

After the samples were frozen ground, using extracted with methanol, after membrane filtration, high performance liquid chromatograph, external standard.

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4 Reagents and materials

Unless otherwise specified, use only analytical reagent. The water used in line with GB/T 6682 provided a water.

4.1
Methanol. chromatographically pure.

4.2
pentachlorophenol (PCP). purity >=99%.

4.3 2,3,5,6-tetrachloro-phenol (2,3,5,6-TeCP). purity >=99%.

4.4
o-phenylphenol (OPP). purity >=99%.

4.5
pairs nitrophenol (PNP). purity >=99.9%.

4.6
ammonium acetate.

4.7
ammonium acetate solution (0.77g/L). Weigh 0.77g ammonium acetate (4.6), diluted with water to 1000mL, and mix using now.

4.8
standard stock solution (1000μg/mL). Weigh accurately various phenolic standard 0.05g (accurate to 0.1mg) in 50mL volumetric flask, And diluted with methanol to volume, mix, brown bottle, cold storage for a period of two months.

4.9
standard solution. accurate Pipette standard stock solution (4.8) 0.05mL, 0.1mL, 0.5mL, 1mL, 1.5mL, 2.0mL, 2.5mL in a 10mL volumetric flask, dilute to volume with methanol. This standard solution concentration of phenolic fungicide were 5μg/mL, 10μg/mL, 50μg/mL, 100μg/mL, 150μg/mL, 200μg/mL, 250μg/mL.

5 Instruments

5.1
High performance liquid chromatograph. with diode array detector.

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5.2

mill frozen in liquid nitrogen.

5.3

Analysis of balance. a sense of the amount of 0.1mg, 1mg.

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