

ICS 83.180
CCS G 39

SN

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

SN/T 3694.10-2013

**Determination of perfluorinated alkyl compounds in industrial
products for import and export. Part 10: Adhesives-LC-MS/MS
method**

(English Translation)

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: General Administration of Customs

Table of Contents

Foreword
1 Scope
2 Normative references
3 Method summary
4 Reagents and materials

Foreword

SN/T 3694 "Importers perfluoroalkyl compounds in industrial measurement" is divided into 14 parts.

- Part 1. Cosmetic liquid chromatography - tandem mass spectrometry;
- Part 2. extinguishant liquid chromatography - tandem mass spectrometry;
- Part 3. Lubrication liquid chromatography - tandem mass spectrometry;
- Part 4. Paraffin liquid chromatography - tandem mass spectrometry;
- Part 5. detergent liquid chromatography - tandem mass spectrometry;
- Part 6. Ink liquid chromatography - tandem mass spectrometry;
- Part 7. paint and coatings liquid chromatography - tandem mass spectrometry;
- Part 8. Electronic and Electrical Products liquid chromatography - tandem mass spectrometry;
- Part 9; textiles liquid chromatography - tandem mass spectrometry;
- Part 10. Adhesive liquid chromatography - tandem mass spectrometry;
- Zi Part 11. Leather liquid chromatography - tandem mass spectrometry;
- Part 12. polish liquid chromatography - tandem mass spectrometry;
- Part 13. Food contact materials by liquid chromatography - tandem mass spectrometry;
- Part 14. plastic liquid chromatography - tandem mass spectrometry.

This section SN/T 3694 Part 10.

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

This section drafted by. People's Republic of China Zhejiang Exit Inspection and Quarantine, Jilin People's Republic of China Entry-Exit Inspection and Quarantine Bureau.

1 Scope

SN/T 3694 This section provides liquid chromatography adhesive perfluoroalkyl compound - mass spectrometry/mass spectrometry.

This section applies to adhesive perfluorinated acid, PFOA, perfluorooctanoic azelaic acid, perfluoro decanoic acid, perfluorinated undecanoic acid, lauric acid perfluorinated, perfluorobutane Alkyl sulfonic acid, perfluorohexane sulfonate, PFOS, perfluorinated sulfonic acid decane determination.

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

Extracted with methanol by ultrasonic sample of the target compound, the extract had mixed weak anion exchange solid phase extraction (SPE), liquid chromatography -Tandem mass spectrometer, external standard.

4 Reagents and materials

Unless otherwise specified, the reagents were of analytical grade water are in line with the GB/T 6682 water level.

4.1

methanol. liquid chromatography.

4.2

ammonium acetate. pure class distinctions.

4.3

formic acid (content of 50% volume fraction). pure class distinctions.

4.4

ammonia (content of 25% by volume). pure class distinctions.

4.5

perfluorinated acid, PFOA, perfluorooctanoic azelaic acid, perfluoro decanoic acid, perfluorinated undecanoic acid, perfluorinated lauric acid, potassium perfluorobutane sulfonate, perfluorohexane sulfonate Sodium, perfluoro octane sulfonate, sodium decane perfluoro standard substance. 98% or greater purity. Standards For more information, see Appendix A

Table A.1.

4.6 2% formic acid solution. take 2mL formic acid (4.3), diluted with water and dilute to 100mL, shake.

4.7 1% methanol aqueous ammonia solution. Take 1mL ammonia (4.4), diluted with methanol and set the volume to 100mL, shake.

4.8

ammonium acetate solution. 0.005mol/L. Weigh 0.385g ammonium acetate (4.2), dissolved in water and dilute to 1000mL, shake, too 0.22 μ m filter.

4.9

methanol -0.005mol/L ammonium acetate solution (30.70 by volume). Take 30mL of methanol, and 70mL0.005mol/L ammonium acetate Solution (4.8) mixing, shake.

4.10

standard stock solution. accurately weighed amount of perfluorinated compounds standard substance (4.5), dissolved in methanol, fixed volume, were prepared at a concentration of Standard stock solution 50mg/L, the concentration of the acid radical to count.

4.11

mixed standard working solution. if necessary, with methanol - ammonium acetate solution (4.9) standard stock solution (4.10) diluted to the appropriate concentration the mixed standard working solution.