

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

SN/T 0736.14-2011

**Test method of import and export fertilizers. Part 14:
Determination of trace inorganic anions by ion chromatography
method**

进出口化肥检验方法 第14部分：离子色谱法测定微量无机阴离子
(English Translation)

Issued on: May 31, 2011

Implemented on: December 1, 2011

Issued by: General Administration of Customs

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Foreword

SN/T 0736 "Importers fertilizer test methods" standard series is divided into 14 parts.

- Part 1. sampling and sample preparation;
- Part 2. Determination of moisture;
- Part 3. Determination of particle size;
- Part 4. Flame atomic absorption spectrometric method for the determination of sodium content;
- Part 8. Determination of shrinkage diurea content;
- Part 10. Determination of the free acid;
- Part 11. automatic analyzer nitrogen content;
- Part 12. Determination of Arsenic, chromium, cadmium, mercury, lead by inductively coupled plasma mass spectrometry;
- Part 13. Flame atomic absorption spectrometric method for the determination of copper, zinc, iron, manganese, magnesium, cobalt, nickel content;
- Part 14. Determination of Inorganic anions by ion chromatography.

This section SN/T 0736 "Importers fertilizer test methods" Part 14 series of standards.

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

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

1 Scope

This section provides the import and export of fertilizers chloride, nitrite, nitrate, sulfate ions and phosphate ions ions Chromatographic method.

This section applies to the import and export of inorganic fertilizers, organic and inorganic compound fertilizer trace chloride, nitrite, nitrate ion, sulfate Determination of ions and phosphate ions.

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 SN/T 0736.1 fertilizer import and export inspection methods of sampling and sample preparation Principle 3 Ultrasonic extraction of inorganic fertilizer, organic-inorganic compound fertilizer by ultrasonic extraction, centrifugation, solid phase extraction column separation methods such as extraction and purification.

Potassium hydroxide solution as eluent anion exchange column, the conductivity detector. Retention time qualitative, external standard.

4 Reagents

Unless otherwise specified, in line with an analysis of water for the water GB/T 6682 regulations.

4.1

Chloride (of Cl⁻) standard solution (1000mg/L, water-base).

4.2

nitrite ion (NO₂⁻) standard solution (1000mg/L, water-base).

4.3

nitrate ions (NO₃⁻) standard solution (1000mg/L, water-base).

4.4

Sulfate ion (with SO₄²⁻) standard solution (1000mg/L, water-base).

4.5

phosphate ions (PO₄³⁻) standard solution (1000mg/L, water-base).

4.6

Chloride (Cl⁻, the same below) and nitrite (in NO₂⁻, the same below) mixed standard solution. Pipette accurately chloride ion (Cl⁻) and nitrite (NO₂⁻) standard solution each 5mL in 100mL volumetric flask, dilute to the mark, and this solution 1mL chlorine ion, nitrite ion each 50.0μg.

4.7

Nitrate (with NO_3^- , the same below), sulfate (SO_4^{2-} in dollars, the same below) and phosphate (in PO_4^{3-} , the same below) using standard mix Solution. accurate Pipette nitrate ions (NO_3^-), sulfate ion (SO_4^{2-}) and phosphate ions (PO_4^{3-}) standard solution 10mL to 100mL volumetric flask, dilute to the mark, 1mL solution containing nitrate ion, sulfate ion, phosphate ion each 100.0 μg .

5 Apparatus

5.1

Ion chromatograph. including conductivity detector with suppressors, high capacity anion exchange column, 25 μL loop.

5.2

ultrasonic cleaner.