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CCS G 20



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

GB/T 10209-1988

Replacing GB/T 10209.1-2001

**Determination of monoammonium phosphate and diammonium
phosphate -- Part 1: Total nitrogen content
(English Translation)**

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Foreword

GB/T 10209 "monoammonium phosphate, diammonium phosphate determination method" is divided into four parts.

--- Part 1. total nitrogen content;

--- Part 2. phosphorus content;

--- Part 3. Water;

--- Part 4. granularity.

This part of GB/T 10209 Part 1.

This Part replaces GB/T 10209.1-2001 "MAP, DAP total nitrogen content after distillation titration." the main difference between this version and the previous version are.

--- Standard name from "MAP, DAP total nitrogen content after distillation titration" to "monoammonium phosphate, diammonium phosphate the measuring method - Part 1. total nitrogen content ";

--- Increased content security warning.

This part is proposed by the China Petroleum and Chemical Industry Association.

This part of the National Standardization Technical Committee and soil conditioners Fertilizers (SAC/TC105) and focal point responsible for the interpretation.

This section drafted by. National Fertilizer Quality Supervision and Inspection Center (Shanghai), Liuguo Chemical Corporation.

1 Scope

This section GB/T 10209 specifies the determination of MAP, DAP total nitrogen content of the titration after distillation.

This section applies to all kinds of technology, the monoammonium phosphate, diammonium phosphate determination of total nitrogen content.

2 Normative references

The following documents contain provisions which, through reference GB/T 10209 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 2441.1-2008 Determination of urea - Part 1. total nitrogen content HG/T 2843 fertilizer products for chemical analysis commonly used standard titration solution, standard solution, reagent solution and indicator solution Principle 3 Distilled from an alkaline solution of ammonia absorption with excess sulfuric acid solution, methyl red - methylene blue under mixed indicator solution exists hydroxide Sodium Standard Solution back titration.

4 Reagents and materials

The following part-corrosive reagents and solutions, the operator should be careful! As should be rinsed with water or splashed on the skin immediately for Way to deal with severe cases should be treated immediately.

As used in this section reagent solution and water, in the specifications and method of preparation is not specified, it shall comply with the provisions of HG/T 2843's.

4.1

Ammonium sulfate. excellent pure, CAS No. 7783-20-2, before use at 105 °C drying to constant weight;

Hydrochloric acid solution was 4.2. 1 + 1;

4.3

Sodium hydroxide solution. 400g/L;

4.4 Sulfuric acid solution. Ba (12H₂SO₄

) ~0.5mol/L or Ba (12H₂SO₄) ~1mol/L;

4.5 sodium hydroxide standard titration solution. Ba (NaOH) = 0.5mol/L;

4.6 methyl red - methylene blue mixed indicator solution;

4.7 wide pH test paper.

5 Instruments

5.1

usually laboratory instruments;

5.2

Distillation Apparatus., or distillation apparatus such as GB/T 2441.1-2008 other as shown in FIG. 1 have the same effect Nitrogen;

5.3

Splash Bar. a length of about 100mm, about 5mm diameter glass rod, and one end of a length of about 25mm polyethylene tube sets;

5.4

Distillation heater. 1000W ~ 1500W electric stove, placed in the lift carriage, adjustable height freedom. You can also use an electric furnace thermostat or other forms of heat can adjust the intensity of the heat source.