

ICS 65.080

CCS G20



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

GB/T 10209.2-2010

Replacing GB/T 10209.2-2001

**Determination of monoammonium phosphate and diammonium
phosphate - Part 2: Phosphorus content**

磷酸一铵、磷酸二铵的测定方法 第2部分：磷含量

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Quarantine of the People's Republic of China;
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Table of Contents

- 1 Scope
- 2 Normative references
- 4 Reagents and materials
- 5 Instruments

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 2. This Part replaces GB/T 10209.2-2001 "monoammonium phosphate, diammonium phosphate in phosphorus content determination." The main difference between this version and the previous version are.

--- Standard name from "monoammonium phosphate, diammonium phosphate in phosphorus content determination" to Determination party "monoammonium phosphate, diammonium phosphate Law Part 2. phosphorus content ";

--- According to the new requirements of the standard format for a rewrite;

--- 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) centralized. This section drafted by: National Fertilizer Quality Supervision and Inspection Center (Shanghai), Liuguo Chemical Corporation. The main drafters of this section. Yang, yellow Feng, Zhou Yongming, Mu Yongfeng, business according to Cong. This section first published in 1989 (GB/T 10207-1988 and GB/T 10208-1988), 2001 on the first amendment. MAP, DAP measurement method Part 2. phosphorus content

1 Scope

GB/T 10209.2-2010 is the Chinese national standard on determination of monoammonium phosphate and diammonium phosphat - part 2: phosphorus content, in the field of

agriculture. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 30 June 2010 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 January 2011. Classification: ICS 65.080, CCS G20. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This section GB/T 10209 specifies the method for determination of monoammonium phosphate and diammonium phosphate content. This section applies to all kinds of technology, the monoammonium phosphate, diammonium phosphate determination of water soluble phosphorus and phosphorus 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.

HG/T 2843 fertilizer products chemical analysis commonly used in standard titration solution, standard solution, reagent solution and indicator solution Principle

3 Water and disodium EDTA solution was extracted monoammonium phosphate, diammonium phosphate and water-soluble phosphorus, extract phosphate from CKS Child in an acidic medium to form a yellow phosphomolybdic acid reagent and Quimociac quinoline precipitated by quinoline phosphomolybdate gravimetric method (Arbitration Act) or quinoline phosphomolybdate Determination of water-soluble phosphorus and available phosphorus content morpholino volumetric method.

4 Reagents and materials

The following part-corrosive reagents and solutions, the operator should be careful as splashed on the skin should immediately wash with water or suitable 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 Disodium ethylenediaminetetraacetate (EDTA) solution, 37.5g/L; Weigh 37.5gEDTA in

1000mL beaker, add a small amount of water dissolved, diluted with water to 1000mL, and mix.

4.2 Quimociac reagent;

4.3 nitric acid solution. 11;

4.4 Sodium hydroxide solution. $c(\text{NaOH}) = 0.5\text{mol/L}$;

4.5 hydrochloric acid standard titration solution. $c(\text{HCl}) = 0.2\text{mol/L}$;

4.6 thymol blue - mixed phenolphthalein indicator solution;

4.7 carbon dioxide-free water.

5 Instruments

5.1 usually laboratory instruments;

5.2 Ovens. control $(180 \pm 2)^\circ\text{C}$;

5.3 Glass filter crucible. the 4th volume 30mL;

5.4 Oscillator constant temperature water bath. to control the temperature $(60 \pm 2)^\circ\text{C}$ or roundabout reciprocating oscillator oscillator. Step

6 Analysis Do two parallel determination of sample.