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PEOPLE'S REPUBLIC OF CHINA

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GB/T 8574-2010

Replacing GB/T 8574-2002

Determination of potassium content for compound fertilizers - Potassium tetraphenylborate gravimetric method

复混肥料中钾含量的测定 四苯硼酸钾重量法

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Foreword

This Standard is one of the series of standards for compound fertilizer test methods. These series of national standards are listed below:

- GB/T 8571-2008 "Preparation of laboratory samples for compound fertilizers";
- GB/T 8572-2010 "Determination of total nitrogen content for compound fertilizers titrimetric method after distillation";
- GB/T 8573-2010 "Determination of available phosphorus content for compound fertilizers";
- GB/T 8574-2010 "Determination of potassium content for compound fertilizers - Potassium tetraphenylborate gravimetric method";
- GB/T 8576-2010 "Determination of free water for compound fertilizers - Vacuum oven method";
- GB/T 8577-2010 "Determination of free water for compound fertilizers - Karl Fischer method";
- GB/T 24890-2010 "Determination of chloride content for compound fertilizers";
- GB/T 24891-2010 "Determination of particle size for compound fertilizers".

The preparation of sample solution in this Standard references ISO 5317:1983 "Fertilizers - Determination of water-soluble potassium content - Preparation of the test solution".

This Standard replaces GB/T 8574-2002 "Determination of potassium content for compound fertilizers - Potassium tetraphenylborate gravimetric method".

Main difference between this edition and the previous edition is: the standard format is rewritten.

This Standard is proposed by China Petroleum and Chemical Industry Association.

This Standard is under the jurisdiction of National Technical Committee on Fertilizers and Soil Conditioners of Standardization Administration of China (SAC/TC 105).

Responsible drafting organizations of this Standard: National Center for Quality Supervision and Testing of Fertilizers (Shanghai), Wuxi Pacific Fertilizer Co., Ltd.

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Determination of potassium content for compound fertilizers - Potassium tetraphenylborate gravimetric method

1 Scope

This Standard specifies the determination of potassium content for compound fertilizers.

This Standard applies to the determination of potassium content for compound fertilizers.

2 Normative references

The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. For dated reference, subsequent amendments to (excluding corrections to), or revisions of, any of these publications do not apply. However, the parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent editions of the standards. For undated references, the latest edition of the normative document referred to applies.

GB/T 8571 Preparation of laboratory samples for compound fertilizers

HG/T 2843 Chemical fertilizer products - Standard volumetric standard reagent and indicator solutions for chemical analysis

3 Principle

In weak alkaline solution, sodium tetraphenylborate solution reacts with potassium ions in the sample solution and generates potassium tetraphenylborate precipitates; FILTRATE the precipitates, DRY and WEIGH. If the sample contains cyanamide or organic matters, it may first add bromine water and activated carbon to treat. To prevent cationic interference, an appropriate amount of ethylenediaminetetraacetic acid disodium salt (EDTA) can be added in advance to complex the cation with disodium ethylenediaminetetraacetate.

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