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

GB/T 23843-2009

**Inorganic chemical products -- General method for the
determination of total phosphorus (V) oxide content**

无机化工产品中五氧化二磷含量测定的通用方法

(English Translation)

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Foreword

This revised standard adopts the International Standard ISO 3706. 1976 "phosphoric acid for industrial use (including foodstuffs) --- phosphorus (V) oxide total content Determination --- Quimociac gravimetric method "(in English).

This standard is based on international standards ISO 3706. 1976 --- measure the total content of phosphorus oxide (V) "phosphoric acid for industrial use (including foodstuffs) Set --- Quimociac weight method "redrafted.

Adopting ISO 3706. 1976, the standard of this made some changes, and structural differences related to technical differences have been incorporated into the text, and They relate in terms of the margin identified by a single vertical line. Appendices A and B are given in these technical and structural differences List of differences and the reasons for your reference.

The Standard Appendix A and Appendix B is an informative annex.

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Standardization Technical Committee chemical inorganic chemicals Club (SAC/TC63/SC1) centralized.

1 Scope

This standard specifies the general method of inorganic chemical products phosphorus pentoxide content determination --- Quimociac gravimetric method.

This standard applies to inorganic chemical products in the constant determination of

phosphorus and phosphate.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 6682-2008 analytical laboratory use specifications and test methods (ISO 3696. 1987, MOD) Preparation of HG/T 3696.2 inorganic chemical products, chemical analysis of impurity standard solution Preparations of HG/T 3696.3 inorganic chemical products, chemical analysis

3 PRINCIPLE OF THE METHOD

In acidic medium, the test solution was added phosphorus pentoxide precipitant Quimociac a precipitate. By filtration, drying, said Amount calculated phosphate content.

4 Safety Tips

Reagents used in this test method are toxic or corrosive and flammable, the operation must be careful! As will be splashed on the skin Immediately wash with water, severe cases should be treated immediately.

5 General Provisions

This standard reagents and water in the absence of other requirements specified, refers to three analytical reagent and GB/T 6682-2008 specified in water. Impurities used in the test standard solution, preparations and products, did not indicate when the other requirements, according to HG/T 3696.2, HG/T 3696.3 Provisions prepared.

6 Reagents

6.1

hydrochloric acid;

6.2

nitric acid;

6.3

Quimociac solution.

7 Instruments and equipment

7.1

sintered glass crucible. filter plate pore size of $5\mu\text{m} \sim 15\mu\text{m}$;

7.2

electric oven. the temperature can be controlled at $180\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ or $250\text{ }^{\circ}\text{C} \pm 10\text{ }^{\circ}\text{C}$.

Analysis Step 8

8.1 Preparation of test solution

Weigh the amount of sample (containing phosphorus pentoxide about the quality of 600mg), accurate to 0.0002g, placed in 100mL beaker, add