

Translated English of Chinese Standard: GB/T8576-2010

[www.ChineseStandard.net](http://www.ChineseStandard.net)

[Sales@ChineseStandard.net](mailto:Sales@ChineseStandard.net)

# GB

NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA

ICS 65.080  
G 20

## GB/T 8576-2010

Replacing GB/T 8576-2002

---

### Determination of Free Water for Compound Fertilizers – Vacuum Oven Method

复混肥料中游离水含量的测定 真空烘箱法

#### **GB/T 8576-2010 How to BUY & immediately GET a full-copy of this standard?**

1. [www.ChineseStandard.net](http://www.ChineseStandard.net);
2. Search --> Add to Cart --> Checkout (3-steps);
3. No action is required - Full-copy of this standard will be automatically & immediately delivered to your EMAIL address in 0~25 minutes.
4. Support: [Sales@ChineseStandard.net](mailto:Sales@ChineseStandard.net). Wayne, Sales manager

**Issued on: September 26, 2010**

**Implemented on: March 1, 2011**

---

**Issued by: General Administration of Quality Supervision, Inspection and  
Quarantine;**

**Standardization Administration of PRC.**

## Table of Contents

|                                          |   |
|------------------------------------------|---|
| Foreword.....                            | 3 |
| 1 Scope .....                            | 4 |
| 2 Normative References.....              | 4 |
| 3 Apparatus.....                         | 4 |
| 4 Procedures.....                        | 4 |
| 5 Expression of Analytical Results ..... | 5 |

## Foreword

This Standard is one of the series standards for the test methods of compound fertilizers, these series of national standards are listed as follows:

- 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*.

This Standard replaces GB/T 8576-2002 *Determination of Free Water for Compound Fertilizers—Vacuum Oven Method*.

The major differences between this Standard and previous editions include: the format of the standard has been re-written according to the relevant rules for standardization work.

This Standard was proposed by China Petroleum and Chemical Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Fertilizers and Soil Conditioners (SAC/TC 105).

Drafting organizations of this Standard: National Center for Quality Supervision and Testing of Chemical Fertilizer (Shanghai), and Wuxi Taipingyang Chemical Fertilizer Co., Ltd..

Chief drafting staffs of this Standard: Liu Yun, Zhang Minghong, Zhu Yiliang, and Yuan Yun.

This Standard was first-time published in 1988, and first-time amended in 2002.

# **Determination of Free Water for Compound Fertilizers – Vacuum Oven Method**

## **1 Scope**

This Standard specifies the vacuum oven method for determination of free water for the compound fertilizers.

This Standard is not applicable to the compound fertilizers generating non-moisture volatile substances during the drying process.

## **2 Normative References**

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 8571 Preparation of Laboratory Samples for Compound Fertilizers

## **3 Apparatus**

**3.1** The common laboratory apparatus;

**3.2** Thermostatic vacuum oven (vacuum oven): temperature can be controlled at  $50^{\circ}\text{C}\pm 2^{\circ}\text{C}$ ; while the vacuum degree can be controlled at  $6.4\times 10^4\text{ Pa}$  ~  $7.1\times 10^4\text{ Pa}$ ;

**3.3** Weighing bottle with group stopper: diameter 50mm; height 30mm.

## **4 Procedures**

Do the parallel determination against two pieces of testing materials.

Prepare the laboratory sample as per the provisions of GB/T 8571.

**This is an excerpt of the PDF (Some pages are marked off intentionally)**

**Full-copy PDF can be purchased from 1 of 2 websites:**

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, [Sales@ChineseStandard.net](mailto:Sales@ChineseStandard.net)

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

**----- The End -----**