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

GB/T 22177-2025

Replacing GB/T 22177-2008

Pendimethalin technical material

二甲戊灵原药

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Standardization Administration of the PRC**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 22177-2008 "Pentamyl Technical Grade". Compared with GB/T 22177-2008, the only changes are structural adjustments and editing. Aside from the sexual alterations, the main technical changes are as follows:

---Appearance specifications have been changed (see 4.1,

3.1 in the.2008 version);

---The acetone insoluble matter index has been changed (see 4.2,

3.2 in the.2008 edition);

---The method for determining the mass fraction of pendimethalin has been changed, and the gas chromatography method has been replaced with the arbitration method (see 5.5, 4.3 of the.2008 edition);

---Added inspection rules (see Chapter 6);

---The acceptance period has been changed (see Chapter 7,

5.7 of the.2008 edition). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Agriculture and Rural Affairs of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Pesticide Standardization (SAC/TC133). This document was drafted by: Jiangsu Yong'an Chemical Co., Ltd., Shandong Binnong Technology Co., Ltd., and Shenyang Shenhua Institute Testing Technology Co., Ltd. Shandong Huayang Pesticide & Chemical Group Co., Ltd. The main drafters of this document are. Zhao Qinghua, Wang Xiaojun, Wei Yanyan, Cheng Hongxue, Liu Yong, Niu Yongfang, Li Rui, and Wang Yuying. The release history of this document and the document it replaces is as follows:

---First published in.2008 as GB/T 22177-2008;

---This is the first revision. Pendimethalin raw material

1 Scope

GB/T 22177-2025 is the Chinese national standard covering pendimethalin as technical grade - the assay and the limits on the related impurities, including the nitrosamine that this chemistry can generate, the appearance and the moisture, and the analytical method behind each figure. It replaces GB/T 22177-2008, under the Ministry of Agriculture and Rural Affairs. In force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026, replacing GB/T 22177-2008.

This document specifies the technical requirements, inspection rules, acceptance procedures, quality guarantee period, marking, labeling, packaging, and storage of pendimethalin technical grade. The test method for pendimethalin technical grade is described. This document applies to the quality control of pendimethalin technical product.

Note. Other names, structural formulas and basic physicochemical parameters of dimethomorph are given in Appendix A.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 1600-2021 Method for Determination of Moisture Content in Pesticides

GB/T 1601 Method for Determination of pH Value of Pesticides

GB/T 1604 Rules for Acceptance of Commercial Pesticides

GB/T 1605-2001 Sampling Methods for Commercial Pesticides

GB 3796 General Rules for Pesticide Packaging

GB/T 8170-2008 Rules for rounding off numerical values and the representation and determination of limiting values

GB/T 19138 Determination of Acetone-Insoluble Matter in Pesticides

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4 Technical Requirements

4.1 Appearance Orange to brownish-yellow crystalline powder or irregular flaky solid.

4.2 Technical Specifications The technical grade of pendimethalin should meet the requirements in Table 1. Table

1 Technical Specifications of Pendimethalin Technical Grade Project Indicators

Dimethoprim-ammonia-methyl mass fraction/% $\geq$

95.0 Moisture/% $\leq$

0.5 Acetone-insoluble matter/% $\leq$

0.3 pH value 4.0~8.0