



BSI Standards Publication

## **Inorganic fertilizers — Determination of specific inhibitors**

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## National foreword

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The UK participation in its preparation was entrusted to Technical Committee CII/37, Fertilisers and related chemicals.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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TECHNICAL SPECIFICATION  
SPÉCIFICATION TECHNIQUE  
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**CEN/TS 17752**

April 2022

ICS 65.080

English Version

**Inorganic fertilizers - Determination of specific inhibitors**

Engrais inorganiques - Détermination des inhibiteurs  
spécifiques

Anorganische Düngemittel - Bestimmung spezifischer  
Hemmstoffe

This Technical Specification (CEN/TS) was approved by CEN on 13 March 2022 for provisional application.

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<b>Contents</b>		<b>Page</b>
European foreword.....		3
Introduction .....		4
1	Scope .....	5
2	Normative references .....	5
3	Terms and definitions .....	6
4	Sampling and sample preparation.....	6
4.1	Sampling.....	6
4.2	Sample preparation.....	6
5	Determination of specific inhibitors .....	6
5.1	Determination of the nitrification inhibitor content .....	6
5.1.1	Determination of dicyandiamide .....	6
5.1.2	Determination of 3-methylpyrazole (MP).....	6
5.1.3	Determination of 1H-1,2,4-triazole .....	6
5.1.4	Determination of 3,4-dimethyl-1H-pyrazole phosphate (DMPP) .....	6
5.1.5	Determination of 2-(3,4-dimethyl-pyrazol-1-yl)-succinic acid (DMPSA) .....	6
5.2	Determination of the urease inhibitor content.....	7
5.2.1	Determination of N-(n-butyl)thiophosphoric triamide (NBPT) .....	7
5.2.2	Determination of N-(2-nitrophenyl)phosphoric triamide (2-NPT) .....	7
5.2.3	Determination of N-(n-butyl)thiophosphoric triamide (NBPT) and N-(n-propyl)thiophosphoric triamide (NPPT) .....	7
Bibliography.....		8

## **European foreword**

This document (CEN/TS 17752:2022) has been prepared by Technical Committee CEN/TC 260 “Fertilizers and liming materials”, the secretariat of which is held by DIN.

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## **Introduction**

Regulation (EU) 2019/1009 [1] lays down the rules on the making available on the market of EU fertilizing products and the specific safety and quality requirements for the defined product function categories (PFCs). Inorganic fertilizers have been classified into PFC 1(C).

The specific safety and quality requirements are defined in this document as well as normative references of the test methods to be used in order to measure the compliance with the related parameter in the Regulation (EU) 2019/1009 [1].

## 1 Scope

This document specifies references to the methods for the determination of nitrification inhibitors and urease inhibitors in inorganic fertilizers.

This document is applicable to EU fertilizing products classified as PFC 1(C) and PFC 7 as long as the blend only consists of EU fertilizing products classified as PFC 1(C), PFC 2 and PFC 5 as specified in the Regulation (EU) 2019/1009 [1].

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1482-1:2007, *Fertilizers and liming materials — Sampling and sample preparation — Part 1: Sampling*

EN 1482-2:2007, *Fertilizers and liming materials — Sampling and sample preparation — Part 2: Sample preparation*

EN 1482-3:2016, *Fertilizers and liming materials — Sampling and sample preparation — Part 3: Sampling of static heaps*

EN 12944-1:1999,<sup>1</sup> *Fertilizers and liming materials — Vocabulary — Part 1: General terms*

EN 12944-2:1999,<sup>2</sup> *Fertilizers and liming materials — Vocabulary — Part 2: Terms relating to fertilizers*

EN 15360:2007, *Fertilizers — Determination of dicyandiamide — Method using high-performance liquid chromatography (HPLC)*

EN 15688:2008, *Fertilizers — Determination of urease inhibitor N-(n-butyl)thiophosphoric triamide (NBPT) using high-performance liquid chromatography (HPLC)*

EN 15905:2010, *Fertilizers — Determination of 3-methylpyrazole (MP) using high-performance liquid chromatography (HPLC)*

EN 16024:2011, *Fertilizers — Determination of 1H-1,2,4-triazole in urea and in fertilizers containing urea — Method using high-performance liquid chromatography (HPLC)*

EN 16075:2011, *Fertilizers — Determination of N-(2-nitrophenyl)phosphoric triamide (2-NPT) in urea and fertilizers containing urea — Method using high-performance liquid chromatography (HPLC)*

EN 16328:2012, *Fertilizers — Determination of 3,4-dimethyl-1H-pyrazole phosphate (DMPP) — Method using high-performance liquid chromatography (HPLC)*

EN 16651:2015, *Fertilizers — Determination of N-(n-Butyl)thiophosphoric acid triamide (NBPT) and N-(n-Propyl)thiophosphoric acid triamide (NPPT) — Method using high-performance liquid chromatography (HPLC)*

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<sup>1</sup> As impacted by EN 12944-1:1999/AC:2000.

<sup>2</sup> As impacted by EN 12944-2:1999/AC:2000.