
Organska in organsko-mineralna gnojila - Določanje dušika

Organic and organo-mineral fertilizers - Determination of the nitrogen content

Organische und organisch-mineralische Düngemittel - Bestimmung des Stickstoffgehaltes

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65.080

Gnojila

Fertilizers

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**Organic and organo-mineral fertilizers - Determination of
the nitrogen content**

Organische und organisch-mineralische Düngemittel -
Bestimmung des Stickstoffgehaltes

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European foreword

This document (prEN 17771:2026) has been prepared by Technical Committee CEN/TC 260 “Fertilizers and liming materials”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document will supersede CEN/TS 17771:2022.

prEN 17771:2026 includes the following significant technical changes with respect to CEN/TS 17771:2022:

- The CEN Technical Specification has been adopted as a European Standard including the addition of Annex ZA;
- Scope (Clause 1) updated including a clarification on fertilizing product blends;
- Normative references and Bibliography revised;
- Annex A (Results of the interlaboratory study) added;
- Annex ZA added.

This document has been prepared under a Standardization Request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

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). Organic and organo-mineral fertilizers have been classified as PFC 1(A) and PFC 1(B).

This document defines test methods for the determination of the nitrogen content to be used for organic and organo-mineral fertilizers in order to measure the compliance with the related requirement in Regulation (EU) 2019/1009 [1].

The inter-laboratory study reflects the final statistical characteristics of the method for the determination of the specific forms of nitrogen present in the sample.

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1 Scope

This document specifies a method for the determination of the total nitrogen content and the content of ammoniacal, nitric, ureic and organic nitrogen in organic and organo-mineral fertilizers.

This document is applicable to fertilizing product blends, where the blend is a mix of at least two of the following components: fertilizers, liming materials, soil improvers, biostimulants and where the following category organic fertilizers, organo-mineral fertilizers is the highest % in the blend by mass or volume, or in the case of liquid form by dry mass. If the organic fertilizer or the organo-mineral fertilizer is not the highest % in the blend, the European Standard for the highest % of the blend applies. In case a fertilizing product blend is composed of components in equal quantity, the user decides which standard to apply.

This document is applicable to products that at least contain a total nitrogen content of 1 % by mass. In case of fertilizing product blends, it is unattainable to ascertain the origin of the measured nitrogen with respect to the specific component.

NOTE Variations in analytical methods for fertilizing product blends can lead to differing results as some components or matrix interactions can affect the outcome. Validation procedures have shown that developed standard methods are robust and reliable across diverse product compositions, but possible interferences and unexpected results when analysing fertilizing product blends are possible.

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 1482-2:2024, *Fertilizers, liming materials and inhibitors - Sampling and sample preparation - Part 2: General sample preparation provisions*

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

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 12944-1:1999 and EN 12944-2:1999 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Principle

The fertilizer sample shall be analysed according to four different analytical pathways to quantify the different forms of nitrogen in the sample. The nitrogen content determined by the four analytical pathways is representative for:

- a) total nitrogen content;

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

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