



BSI Standards Publication

Inorganic fertilizers — Determination of nutrient polymers nitrogen in the presence of other nitrogenous forms

National foreword

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

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English Version

Inorganic fertilizers - Determination of nutrient polymers nitrogen in the presence of other nitrogenous forms

Engrais inorganiques - Détermination de l'azote des
polymères nutritifs en présence d'autres formes
azotées

Anorganische Düngemittel - Bestimmung von
Nährstoff-Polymer-Stickstoff in Anwesenheit anderer
stickstoffhaltiger Formen

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Contents

Page

European foreword	3
1 Scope.....	4
2 Normative references.....	4
3 Terms and definitions	4
4 Principle	4
4.1 General.....	4
4.2 Total nitrogen.....	5
4.2.1 Total nitrogen in the presence of nitrate nitrogen	5
4.2.2 Total nitrogen in the absence of nitrate nitrogen	5
4.3 Nitrate nitrogen	5
4.4 Ammonia nitrogen.....	5
4.5 Urea nitrogen	5
4.6 Cyanamide nitrogen.....	5
4.7 Isobutylidenediurea nitrogen (IBDU)	5
4.8 Crotonylidenediurea nitrogen (CDU)	5
4.9 Methylen-urea nitrogen.....	5
5 Sampling and sample preparation	5
5.1 Sampling.....	5
5.2 Sample preparation	6
6 Procedure	6
6.1 Part A: Determination of total, nitric, ammoniacal and cyanamide nitrogen.....	6
6.1.1 Reagents	6
6.1.2 Apparatus and equipment.....	7
6.1.3 Total nitrogen.....	7
6.1.4 Nitrate nitrogen	7
6.1.5 Ammoniacal nitrogen.....	8
6.1.6 Cyanamide nitrogen.....	8
6.1.7 Digestion of the test solution.....	8
6.1.8 Distillation of the test solution.....	8
6.1.9 Titration	9
6.1.10 Blank test	9
6.1.11 Expression of the result.....	9
6.2 Part B: Determination of urea, IBDU and CDU nitrogen	10
6.2.1 Determination of urea.....	10
6.2.2 Determination of IBDU.....	10
6.2.3 Determination of CDU	11
6.3 Part C: Determination of methylen-urea nitrogen.....	11
7 Test report.....	11
Annex A (informative) Stannous chloride solution	12
Annex B (informative) Overview of subclauses to determine the various nitrogen forms	13
Bibliography.....	14

European foreword

This document (EN 18103:2025) has been prepared by Technical Committee CEN/TC 260 “Fertilizers and liming materials”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2026, and conflicting national standards shall be withdrawn at the latest by March 2026.

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1 Scope

This document specifies a method for the determination of nutrient polymers nitrogen in presence of the other forms of nitrogen in inorganic fertilizers.

The method is applicable to all fertilizers which do not contain interfering organic compounds.

NOTE Nutrient polymers are methylen-urea (MU), in liquid and in solid form.

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, *Fertilizers, liming materials and inhibitors — Sampling and sample preparation — Part 1: General sampling provisions*

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

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

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

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

EN 15562, *Inorganic fertilizers — Determination of cyanamide nitrogen*

EN 17864, *Inorganic fertilizers — Determination of nitrogen content in IBDU (isobutylidenediurea) and CDU (crotonylidenediurea)*

ISO 19746:2017, *Determination of urea content in urea-based fertilizers by high performance liquid chromatography (HPLC)*

3 Terms and definitions

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

ISO and IEC maintain terminology 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

4.1 General

The test sample is treated in different ways depending on the parameter to be determined.