

STN	Anorganické hnojivá Stanovenie metylénmočovínových oligomérov s použitím vysokoúčinnnej kvapalinovej chromatografie (HPLC)	STN EN 15705 65 4859
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Inorganic fertilizers - Determination of methylen-urea oligomers using high-performance liquid chromatography (HPLC)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/24

Obsahuje: EN 15705:2023

Spolu s STN EN 17864 ruší
STN EN 15705 (65 4859) z júla 2010

138184

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2024
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii
v znení neskorších predpisov.

EUROPEAN STANDARD

EN 15705

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2023

ICS 65.080

Supersedes EN 15705:2010

English Version

Inorganic fertilizers - Determination of methylen-urea oligomers using high-performance liquid chromatography (HPLC)

Engrais inorganiques - Dosage des oligomères de méthylène-urée par chromatographie liquide haute performance (HPLC)

Anorganische Düngemittel - Bestimmung von Methylenharnstoff-Oligomeren mittels Hochleistungsflüssigkeitschromatographie (HPLC)

This European Standard was approved by CEN on 27 November 2023.

This European Standard was corrected and reissued by the CEN-CENELEC Management Centre on 10 January 2024.

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COMITÉ EUROPÉEN DE NORMALISATION
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EN 15705:2023 (E)

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European foreword

This document (EN 15705:2023) 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of an identical text or by endorsement, at the latest by June 2024, and conflicting national standards shall be withdrawn at the latest by June 2024.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document, together with EN 17864:2023, supersedes EN 15705:2010.

In comparison with EN 15705:2010, the following technical modifications have been made:

- EN 15705:2010 is split into two documents:
 - Method A of EN 15705:2010 is given in EN 17864:2023;
 - Method B of EN 15705:2010 is given in this document.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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EN 15705:2023 (E)

1 Scope

This document specifies a method for the determination of methylen-urea (MU) oligomers in inorganic fertilizers using high-performance liquid chromatography (HPLC).

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

NOTE By the condensation of urea and formaldehyde, several oligomers are formed, such as methylen-diurea (MDU), dimethylen-triurea (DMTU), trimethylen-tetraurea (TMTU) and higher oligomers. The three molecules named here are the most soluble in water, while the higher compounds are insoluble in hot water, but their nitrogen is available for plants by microbiological decomposition. Also, urea is always a companion of MU-oligomers.

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, *Fertilizers and liming materials — Sampling and sample preparation — Part 2: Sample preparation*

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*

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