

Irish Standard Recommendation S.R. CEN/TS 17776:2022

Organic and organo-mineral fertilizers -Determination of the total organic carbon (TOC) content by dry combustion

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S.R. CEN/TS 17776:2022

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National Foreword

S.R. CEN/TS 17776:2022 is the adopted Irish version of the European Document CEN/TS 17776:2022, Organic and organo-mineral fertilizers - Determination of the total organic carbon (TOC) content by dry combustion

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TECHNICAL SPECIFICATION

CEN/TS 17776

SPÉCIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION

April 2022

ICS 65.080

English Version

Organic and organo-mineral fertilizers - Determination of the total organic carbon (TOC) content by dry combustion

Engrais organiques et organo-minéraux -Détermination de la teneur en carbone organique Organische und organisch-mineralische Düngemittel -Bestimmung des Gehalts an organischem Kohlenstoff (TOC) durch trockene Verbrennung

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

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CEN/TS 17776:2022 (E)

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European foreword

This document (CEN/TS 17776:2022) has been prepared by Technical Committee CEN/TC 260 "Fertilizers and liming materials", the secretariat of which is held by DIN.

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 has been prepared under a standardisation request given to CEN by the European Commission and the European Free Trade Association.

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CEN/TS 17776:2022 (E)

1 Scope

This document is applicable to fertilizing products, which are classified as PFC 1(A) and PFC 1(B) or the PFC 1(A) and PFC 1(B) component in PFC 7 of Regulation (EU) 2019/1009 [5]. However, the present method was not validated for blends.

This document specifies a method for the determination of total organic carbon (TOC) by elemental analysis using dry combustion. The method is applicable to organic and organo-mineral fertilizers containing more than 1 g carbon per kg of dry matter (0,1 %), with the exclusion of organo-mineral fertilizers containing urea-formaldehyde polymers as long as there is no method available to assess carbon in urea-formaldehyde polymers.

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.

CEN/TS 17771, Organic and organo-mineral fertilizers — Determination of the nitrogen content

CEN/TS 17773, Organic and organo-mineral fertilizers — Determination of the dry matter content

EN 15705, Fertilizers — Determination of urea condensates using high-performance liquid chromatography (HPLC) — Isobutylidenediurea and crotonylidenediurea (method A) and methylen-urea oligomers (method B)

EN ISO 3696:1995, Water for analytical laboratory use — Specification and test methods (ISO 3696: 1987)

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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/

3.1

total organic carbon

TOC

quantity of carbon that is converted into carbon dioxide by combustion and which is not liberated as carbon dioxide by acid treatment

Note 1 to entry: In agreement with Regulation (EU) 2019/1009 [5], carbon derived from urea and polymers containing urea are not considered as organic in this document.



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