

STN P	Organické a organicko-minerálne hnojivá Stanovenie obsahu šesťmocného chrómu (VI) chromatografiou	STN P CEN/TS 17778 65 5042
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Organic and organo-mineral fertilizers - Determination of the chromium (VI) content by chromatography

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. 07/22

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English Version

**Organic and organo-mineral fertilizers - Determination of
the chromium (VI) content by chromatography**

Engrais organiques et organo-minéraux -
Détermination de la teneur en chrome(VI)

Organische und organisch-mineralische Düngemittel -
Bestimmung des Gehalts an Chrom (VI)

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

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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CEN/TS 17778:2022 (E)

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European foreword

This document (CEN/TS 17778:2022) 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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CEN/TS 17778:2022 (E)**Introduction**

Regulation (EU) 2019/1009 [3] 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 chromium (VI) content to be used for organic and organo-mineral fertilizers in order to measure the compliance with the related requirement in the Regulation (EU) 2019/1009 [3].

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 [3]. However, the present method was not validated on blends.

This document specifies a method for the determination of hexavalent chromium (chromium (VI)) in organic and organo-mineral fertilizers.

The method described is suitable to quantify the chromium (VI) content in organic and organo-mineral fertilizers down to 2 mg/kg dry matter.

The results obtained from this method are strictly dependent on the extraction conditions. Results obtained by using other extraction procedures (extraction solution, pH of the extraction solution, extraction time, extraction temperature, etc.) are not comparable with the results produced by the procedure described in this document.

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

CEN/TS 17773:2022, *Organic and organo-mineral fertilizers — Determination of the dry matter content*

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