



BSI Standards Publication

**Organic and organo-mineral fertilizers — Extraction
by water for subsequent determination of elements**

National foreword

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

A list of organizations represented on this committee can be obtained on request to its committee manager.

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English Version

**Organic and organo-mineral fertilizers - Extraction by
 water for subsequent determination of elements**

Engrais organiques et organo-minéraux - Extraction à
 l'eau pour le dosage ultérieur des éléments

Organische und organisch-minerale Düngemittel -
 Extraktion durch Wasser zur anschließenden
 Bestimmung der Elemente

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

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European foreword

This document (CEN/TS 17766:2022) 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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1 Scope

This document specifies a method for the extraction by water for the subsequent determination of elements.

The extracts are suitable for analysis using CEN/TS 17774.

NOTE Alternatively, inductively coupled plasma mass spectrometry (ICP-MS) can be used for the measurement if the user proves that the method gives the same results.

The method is applicable to organic and organo-mineral fertilizers.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

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

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

4 Principle

The principle is to perform the extraction in water by shaking under the specified conditions.

5 Sampling and sample preparation

Sampling and sample preparation should be performed carefully, following the principles described in EN 1482 (all parts) with appropriate adaptations, required to account for specificities of organic and organo-mineral fertilizers.

6 Reagents

6.1 **Water**, distilled or demineralized.

7 Apparatus

7.1 **500 ml graduated flask**, e.g. Stohmann.

7.2 **Rotary shaker**, 35 turns per minute to 40 turns per minute.

7.3 **Dry pleated filter**, Phosphate free.