



# SLOVENSKI STANDARD

## SIST EN 15958:2012

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Nadomešča:

SIST-TS CEN/TS 15958:2010

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**Gnojila - Ekstrakcija v vodi topnega fosforja**

Fertilizers - Extraction of water soluble phosphorus

Düngemittel - Extraktion des in Wasser löslichen Phosphors

Engrais - Extraction du phosphore soluble dans l'eau

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**Ta slovenski standard je istoveten z: EN 15958:2011**

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**ICS:**

65.080

Gnojila

Fertilizers

**SIST EN 15958:2012**

**en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 15958**

November 2011

ICS 65.080

Supersedes CEN/TS 15958:2009

English Version

**Fertilizers - Extraction of water soluble phosphorus**

Engrais - Extraction du phosphore soluble dans l'eau

Düngemittel - Extraktion des in Wasser löslichen  
Phosphors

This European Standard was approved by CEN on 15 October 2011.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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## Foreword

This document (EN 15958:2011) 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 May 2012, and conflicting national standards shall be withdrawn at the latest by May 2012.

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

This document supersedes CEN/TS 15958:2009.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

The following has been added to the former edition of the European Standard:

- a) the CEN Technical Specification has been adopted as a European Standard;
- b) editorial revision.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

**EN 15958:2011 (E)****1 Scope**

This European Standard specifies a method for the extraction of water soluble phosphorus.

The method is applicable to all fertilizers, including compound fertilizers, where water soluble phosphorus is to be determined.

**2 Normative references**

The following referenced documents are indispensable for the application 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 12944-1:1999, *Fertilizers and liming materials and soil improvers — Vocabulary — Part 1: General terms*

EN 12944-2:1999, *Fertilizers and liming materials and soil improvers — Vocabulary — Part 2: Terms relating to fertilizers*

**3 Terms and definitions**

For the purposes of this document, the terms and definitions given in EN 12944-1:1999 and EN 12944-2:1999 apply.

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**4 Principle**

Extraction in water by shaking under the specified conditions.

**5 Sampling**

Sampling is not part of the method specified in this document. A recommended sampling method is given in EN 1482-1.

Sample preparation shall be carried out in accordance with EN 1482-2. Grinding of the laboratory sample is recommended for homogeneity reasons.

**6 Reagents**

**6.1 Water**, distilled or demineralized.

**7 Apparatus**

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

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

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

## 8 Procedure

### 8.1 Test portion

Weigh, to the nearest 0,001 g, 5 g of the laboratory sample and place it in a graduated flask (7.1).

### 8.2 Extraction

Add to the test portion in the flask 450 ml of water (6.1), the temperature of which shall be between 20 °C and 25 °C.

Shake in the rotary shaker (7.2) for 30 min.

Then make up to the mark with water, mix thoroughly by shaking and filter through a dry pleated filter (7.3).

## 9 Test report

The test report shall contain at least the following information:

- a) all information necessary for the complete identification of the sample;
- b) test method used with reference to this document;
- c) test results obtained;
- d) date of sampling and sampling procedure (if known);
- e) date when the analysis was finished; [SIST EN 15958:2012](https://standards.iteh.ai/catalog/standards/sist/884219d0-4c2f-49de-9360-715f42205e38/en-15958-2012)
- f) whether the requirement of the repeatability limit has been fulfilled;
- g) all operating details not specified in this document, or regarded as optional, together with details of any incidents occurred when performing the method, which might have influenced the test result(s).

## Bibliography

- [1] EN 1482-1, *Fertilizers and liming materials — Sampling and sample preparation — Part 1: Sampling*
- [2] Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilisers, Official Journal L 304, 21.11.2003, p. 1-194, Annex IV, Method 3.1.6

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