

ICS 65.080

English Version

Fertilizers - Determination of the sodium extracted by flame-emission spectrometry

Engrais - Dosage du sodium extrait par spectrométrie
d'émission de flamme

Düngemittel - Bestimmung von extrahiertem Natrium mit
Emissions-Flammenspektrometrie

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Foreword

This document (CEN/TS 16199:2011) 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 Technical Specification specifies a method for the determination of the sodium content in fertilizer extracts by flame-emission spectrometry.

The method is applicable to EC fertilizers for which a declaration of the sodium content is provided for in Regulation (EC) Nr 2003/2003, Annex I [3].

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*

CEN/TS 15960:2009, *Fertilizers — Extraction of total calcium, total magnesium, total sodium and total sulfur in the forms of sulfates*

CEN/TS 15961:2009, *Fertilizers — Extraction of water soluble calcium, magnesium, sodium and sulfur in the form of sulfates*

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.

4 Principle

Following suitable dilution of the extract obtained according to CEN/TS 15960 or CEN/TS 15961, the sodium content of the solution is determined by flame-emission spectrometry.

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 Diluted hydrochloric acid.

Add one volume of hydrochloric acid for analysis ($\rho_{20} = 1,18$ g/ml) to one volume of water.