



BSI Standards Publication

**Fertilizers - Determination of boron
in concentrations ≤ 10 % using
spectrometry with azomethine-H**

National foreword

This British Standard is the UK implementation of EN 17041:2018.

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 secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Amendments/corrigenda issued since publication

Date	Text affected
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English Version

**Fertilizers - Determination of boron in concentrations $\leq$
10 % using spectrometry with azomethine-H**

Engrais - Dosage du bore dans des concentrations
 $\leq$ 10 % par spectrométrie avec l'azomethine-H

Düngemittel - Bestimmung von Bor
in Konzentrationen $\leq$ 10 % durch
Spektrometrie mit Azomethin-H

This European Standard was approved by CEN on 26 February 2018.

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European foreword

This document (EN 17041:2018) 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of an identical text or by endorsement, at the latest by December 2018, and conflicting national standards shall be withdrawn at the latest by December 2018.

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Introduction

The preparation of this document by CEN is based on a mandate by the European Commission and the European Free Trade Association (Mandate M/335), concerning the modernization of methods of analysis on fertilizers in the framework of Regulation (EC) No 2003/2003 [1].

This European Standard is part of a modular approach and concerns the analytical measurement step. “Modular” means that a test standard concerns a specific step in assessing a property and not the whole chain of measurements.

The determination of boron in fertilizers can be executed by inductively coupled plasma-atomic emission spectrometry (ICP-AES). Spectrophotometric determination with azomethine-H is more labour intensive than ICP-AES method (EN 16963) but the method is reliable and relatively inexpensive and it is an option when ICP-AES is not available.

The spectrophotometric determination can be influenced by iron and more attention is necessary also to organic matter removal and interferences from extract colour. The procedure for removal of organic matter from the extracts is given in EN 16962.

WARNING — Persons using this European Standard should be familiar with normal laboratory practice. This European Standard does not purport to address all of the safety issues, if any, associated with its use. It is the responsibility of the user to establish appropriate health and safety practices and to ensure compliance with any national regulatory conditions.

IMPORTANT — It is absolutely essential that tests conducted according to this European Standard are carried out by suitably trained staff.