

# DIN EN 17041:2018-08 (E)

## Fertilizers - Determination of boron in concentrations <kleiner => 10 % using spectrometry with azomethine-H

---

Contents	Page
European foreword .....	3
Introduction .....	4
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	5
4 Principle .....	5
5 Sampling and sample preparation .....	5
6 Reagents .....	6
7 Apparatus .....	7
8 Procedure .....	7
8.1 General .....	7
8.2 Preparation of calibration solutions .....	7
8.3 Preparation of the test solutions .....	7
8.4 Preparation of the correction solutions .....	8
8.5 Colour development .....	8
8.6 Measurement .....	8
9 Calculation and expression of the result .....	8
10 Test report .....	9
Annex A (informative) Verification data - Comparison of ICP-AES method and spectrophotometric method with azomethine-H .....	10
A.1 Introduction .....	10
A.2 Validation based on water extraction .....	10
A.2.1 Test materials used in the validation study .....	10
A.2.2 Results of the validation study .....	11
A.2.3 Conclusions .....	12
A.3 Validation based on aqua regia extraction .....	12
A.3.1 Test materials used in the validation study .....	12
A.3.2 Results of the validation study .....	14
A.3.3 Conclusions .....	15
Bibliography .....	16