ISO 15604:2016-05 (E)

Fertilizers - Determination of different forms of nitrogen in the same sample, containing nitrogen as nitric, ammoniacal, urea and cyanamide nitrogen

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principle 1
4.1 Total soluble and insoluble nitrogen 1
4.2 Forms of soluble nitrogen 2
4.2.1 General 2
4.2.2 Total soluble nitrogen 2
4.2.3 Total soluble nitrogen with the exception of nitrate nitrogen 2
4.2.4 Nitrate nitrogen by difference 2
4.2.5 Ammoniacal nitrogen 2
4.2.6 Urea nitrogen 2
4.2.7 Cyanamide nitrogen 3

5 Reagents 3

6 Apparatus 5

7 Sampling and sample preparation 10

8 Procedure 10
8.1 Total soluble and insoluble nitrogen 10
8.1.1 In the absence of nitrates 10
8.1.2 In the presence of nitrate 11
8.2 Forms of soluble nitrogen 12
8.2.1 Preparation of the solution to be analysed 12
8.2.2 Total soluble nitrogen 13
8.2.3 Total soluble nitrogen with the exception of nitrate nitrogen 14
8.2.4 Nitrate nitrogen 14
8.2.5 Ammoniacal nitrogen 15
8.2.6 Urea nitrogen 16
8.2.7 Cyanamide nitrogen 18

9 Verificationoftheresult 18

10 Test report 18

Bibliography 19