ISO 7431-1:2024-01 (E)

Thiourea for industrial use - Part 1: Test methods

Contents

Page

Foreword ..... **iv**

Introduction ..... **v**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Test methods **2**

4.1 General 2

4.2 Determination of thiourea content 2

4.2.1 Principle 2

4.2.2 Reagents 2

4.2.3 Apparatus 2

4.2.4 Procedure 3

4.2.5 Calculation 3

4.2.6 Expression of results 3

4.3 Determination of water insoluble substance 3

4.3.1 Principle 3

4.3.2 Apparatus 3

4.3.3 Procedure 4

4.3.4 Calculation 4

4.3.5 Expression of results 4

4.4 Determination of ignition residue 4

4.4.1 Principle 4

4.4.2 Apparatus 4

4.4.3 Procedure 4

4.4.4 Calculation 4

4.4.5 Expression of results 5

4.5 Determination of initial melting point 5

4.5.1 Principle 5

4.5.2 Apparatus 5

4.5.3 Procedure 5

4.5.4 Calculation 5

4.5.5 Expression of results 5

4.6 Determination of turbidity 5

4.7 Determination of thiocyanate content 5

4.7.1 Principle 5

4.7.2 Reagents 6

4.7.3 Apparatus 6

4.7.4 Procedure 6

4.7.5 Calculation 6

4.7.6 Expression of results 6

4.8 Determination of calcium element 6

4.8.1 General 6

4.8.2 Ion chromatography 6

4.8.3 Inductively coupled plasma optical emission spectrometry (ICP-OES) 7

4.8.4 Atomic absorption spectrometry (AAS) (referee method) 8

4.9 Determination of heavy metals 9
4.9.1 Principle 9
4.9.2 Reagents 9
4.9.3 Apparatus 9
4.9.4 Procedure 9
4.9.5 Determination 9
4.9.6 Expression of results 9