ISO 14403-2:2012-07 (E)

Water quality - Determination of total cyanide and free cyanide using flow analysis (FIA and CFA) - Part 2: Method using continuous flow analysis (CFA)

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Interferences 2
4.1 Interferences by oxidizing agents 2
4.2 Interferences by sulfide, sulfite, nitrite and carbonyl compounds 2
4.3 Other interferences 2

5 Principle 3
5.1 Determination of total cyanide 3
5.2 Determination of free cyanide 3

6 Reagents 3

7 Apparatus 6

8 Sampling and sample preparation 8

9 Procedure 9
9.1 Flow system set-up 9
9.2 Reagent blank measurement 9
9.3 Checking the suitability of the flow system 10
9.4 Calibration 10
9.5 Sample measurement 11

10 Calculation 11

11 Expression of results 11

12 Test report 11

Annex A (informative) Examples of flow systems 13

Annex B (normative) Determination of the real cyanide concentration in the potassium cyanide solution 16

Annex C (informative) Example for the determination of total cyanide and free cyanide by continuous flow analysis (CFA) with gas diffusion and amperometric detection 17

Annex D (informative) Performance data 19

Bibliography 21