DIN EN ISO 14403-1:2012-10 (E)

Water quality - Determination of total cyanide and free cyanide using flow analysi s (FIA and CFA) - Part 1: Method using flow injection analysis (FIA); (ISO 14403-1:2012)

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Interferences 6
4.1 Interferences by oxidizing agents 6
4.2 Interferences by sulfide, sulfite, nitrite, and carbonyl compounds 6
4.3 Other interferences 6

5 Principle 6
5.1 Determination of total cyanide 6
5.2 Determination of free cyanide 7

6 Reagents 7

7 Apparatus 9

8 Sampling and sample preparation 10

9 Procedure 11
9.1 Flow system set-up 11
9.2 Reagent blank measurement 11
9.3 Checking the suitability of the flow system 11
9.4 Calibration 12
9.5 Sample measurement 12

10 Calculation 13

11 Expression of results 13

12 Test report 13

Annex A (informative) Examples of flow systems 14

Annex B (normative) Determination of the real cyanide concentration in the potassium cyanide solution (6.18.1) 15

Annex C (informative) Performance data 16

Bibliography 18