

DIN EN ISO 14403-2:2012-10 (E)

Water quality - Determination of total cyanide and free cyanide using flow analysis (FIA and CFA) - Part 2: Method using continuous flow analysis (CFA) (ISO 14403-2:2012)

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	7
5.1	Determination of total cyanide	7
5.2	Determination of free cyanide	7
6	Reagents	7
7	Apparatus	10
8	Sampling and sample preparation	12
9	Procedure	13
9.1	Flow system set-up	13
9.2	Reagent blank measurement	13
9.3	Checking the suitability of the flow system	14
9.4	Calibration	14
9.5	Sample measurement	15
10	Calculation	15
11	Expression of results	15
12	Test report	15
Annex A (informative) Examples of flow systems		17
Annex B (normative) Determination of the real cyanide concentration in the potassium cyanide solution		20
Annex C (informative) Example for the determination of total cyanide and free cyanide by continuous flow analysis (CFA) with gas diffusion and amperometric detection		21
Annex D (informative) Performance data		23
Bibliography		25