

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

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

<b>Contents</b>		<b>Page</b>
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