

DIN ISO 15923-1:2014-07 (E)

Water quality - Determination of selected parameters by discrete analysis systems - Part 1: Ammonium, nitrate, nitrite, chloride, orthophosphate, sulfate and silicate with photometric detection (ISO 15923-1:2013)

Contents

	Page
National foreword	4
National Annex NA (informative) Bibliography	7
Introduction	8
1 Scope	9
2 Normative references	9
3 Principle	9
4 Interferences	10
5 Reagents	10
6 Apparatus	10
7 Sampling and sample preparation	10
8 Calibration	11
8.1 Calibration function	11
8.2 Calibration validity check	11
9 Procedure	11
10 Calculation	12
11 Expression of results	12
12 Test report	13
Annex A (normative) Correction for inherent colour	14
A.1 General	14
A.2 Sample blanking	14
A.3 Use of a compensating solution	14
Annex B (normative) Determination of ammonium	15
B.1 Principle	15
B.2 Interferences	15
B.3 Reagents	15
B.4 Procedure	16
Annex C (normative) Determination of the sum of nitrate and nitrite by the hydrazine method	17
C.1 Principle	17
C.2 Interference	17

C.3	Reagents	17
C.4	Procedure	18
Annex D (normative) Determination of nitrite		20
D.1	Principle	20
D.2	Interference	20
D.3	Reagents	20
D.4	Procedure	21
Annex E (normative) Determination of chloride by the thiocyanate method		22
E.1	Principle	22
E.2	Interference	22
E.3	Reagents	22
E.4	Procedure	23
Annex F (normative) Determination of orthophosphate		24
F.1	Principle	24
F.2	Interference	24
F.3	Reagents	24
F.4	Procedure	25
Annex G (normative) Determination of sulfate by the turbidimetric method		27
G.1	Principle	27
G.2	Interference	27
G.3	Reagents	27
G.4	Procedure	27
Annex H (normative) Determination of silicate		29
H.1	Principle	29
H.2	Interference	29
H.3	Reagents	29
H.4	Procedure	30
Annex I (informative) Performance data		31
Bibliography		33