

ISO 7393-2:2017-12 (E)

Water quality - Determination of free chlorine and total chlorine - Part 2: Colorimetric method using N,N-dial kyl-1,4-phenylenediamine, for routine control purposes

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Principle	2
4.1	Determination of free chlorine	2
4.2	Determination of total chlorine	3
5	Interferences	3
5.1	General	3
5.2	Interference by other chlorine compounds	3
5.3	Interference by compounds other than chlorine compounds	3
5.4	Interference due to the presence of oxidized manganese	3
5.5	Interference due to turbid and coloured samples	4
6	Reagents	4
7	Apparatus	6
8	Sampling	7
9	Procedure	7
9.1	Test sample	7
9.2	Test portions	7
9.3	Calibration	7
9.4	Determination of free chlorine	7
9.5	Determination of total chlorine	8
10	Calculation	9
10.1	Calculation of the free chlorine concentration	9
10.2	Calculation of the total chlorine concentration	9
10.3	Conversion of amount of substance concentration to mass concentration	9
11	Expression of results	9
12	Test report	9
Annex A (informative)	Separate determinations of combined chlorine of the monochloramine type, combined chlorine of the dichloramine type and of combined chlorine in the form of nitrogen trichloride	11
Annex B (informative)	Performance data	14
Annex C (informative)	Disposable planar reagent-filled cuvettes using a microfluidic channel pump/colorimeter	17
Bibliography		19