ISO 22066:2020 (E)

Water quality — Determination of total cyanide — Method using segmented flow injection, in-line ultraviolet digestion analysis by gas diffusion and amperometric detection

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Principle

5 Interferences

5.1 Interferences by oxidizing agents
5.2 Interferences by sulfide

6 Reagents

7 Apparatus

8 Sampling and sample preparation

8.1 Oxidizing agent
8.2 Sulfide removal
8.3 Preservation

9 Procedure

9.1 Flow system set up
9.2 Reagent blank measurement
9.3 Checking the suitability of the segmented flow analysis system
9.3.1 Cyanide electrode stabilization
9.3.2 Performance verification of the system
9.4 Calibration
9.5 Sample measurement
9.5.1 Cyanide measurement

10 Calculations

11 Expression of results

12 Test report

Annex A (informative) Example of a segmented flow analysis system

Annex B (normative) Determination of the real cyanide concentration in the potassium cyanide solution (6.5.1) or potassium tetracyanozincate solution (6.6.1)

B.1 Additional reagents
B.2 Determination of cyanide concentration in potassium cyanide solution (6.5.1)

Annex C (informative) Performance data

Page count: 15