ISO 20596-2:2021 (E)

Water quality — Determination of cyclic volatile methylsiloxanes in water — Part 2: Method using liquid-liquid extraction with gas chromatography-mass spectrometry (GC-MS)

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Principle

4.1 Principle of preservation and extraction

5 Interferences

5.1 Interferences with sampling and processing
5.2 Interferences with GC-MS
5.3 Interferences determination

6 Reagents

7 Apparatus

8 Method detection limits

9 Quality control

10 Sampling and storage

10.1 Sampling preparation
10.2 Sample collection

11 Extraction and analysis

11.1 Extraction
11.2 GC conditions and operation

12 Calibration

12.1 General requirements
12.2 Calibration calculations
12.3 Concentration calculations
12.4 Calculation of results
12.5 Treatment of results lying outside the calibration range

13 Expression of results

14 Test report

Annex A (informative) GC-MS conditions

Annex B (informative) Method detection limit and limit of quantification

Annex C (informative) Example quality control samples

C.1 Quality control

C.2 Trip blanks
C.3 Field blanks
C.4 Field spikes
C.5 Procedural blanks

Annex D (informative) Performance data

Page count: 16