DIN EN ISO 20596-2:2023-07 (E)

Water quality - Determination of cyclic volatile methylsiloxanes in water - Part 2: Method using liquid-liquid extraction with gas chromatography-mass spectrometry (GC-MS) (ISO 20596-2:2021)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **7**

4 Principle ... **7**
4.1 Principle of preservation and extraction ... 7

5 Interferences ... **7**
5.1 Interferences with sampling and processing ... 7
5.2 Interferences with GC-MS ... 7
5.3 Interferences determination ... 8

6 Reagents ... **8**

7 Apparatus ... **10**

8 Method detection limits ... **11**

9 Quality control ... **11**

10 Sampling and storage ... **11**
10.1 Sampling preparation ... 11
10.2 Sample collection ... 11

11 Extraction and analysis ... **12**
11.1 Extraction ... 12
11.2 GC conditions and operation ... 12

12 Calibration ... **12**
12.1 General requirements ... 12
12.2 Calibration calculations ... 13
12.3 Concentration calculations ... 14
12.4 Calculation of results ... 14
12.5 Treatment of results lying outside the calibration range ... 15

13 Expression of results ... **15**

14 Test report ... **15**

Annex A (informative) **GC-MS conditions** ... **16**

Annex B (informative) **Method detection limit and limit of quantification** ... **18**

Annex C (informative) **Example quality control samples** ... **19**

Annex D (informative) **Performance data** ... **20**

Bibliography ... **21**