DIN EN ISO 5667-23:2011-06 (E)

Water quality - Sampling - Part 23: Guidance on passive sampling in surface waters (ISO 5667-23:2011)

Contents

Page

Foreword 3

Introduction 4

1 Scope 6

2 Normative references 6

3 Terms and definitions 7

4 Principle 8

5 Handling passive sampling devices 9
5.1 General 9
5.2 Passive sampling devices for organic compounds 10
5.3 Passive sampling devices for metals 10

6 Estimation of appropriate field deployment time 11

7 Passive sampling device preparation and assembly 11
7.1 Passive sampling device preparation 11
7.2 Passive sampling device assembly 12
7.3 Passive sampling device storage 12

8 Quality assurance 12
8.1 General 12
8.2 Replicate passive sampling devices in field deployment 12
8.3 Replicate quality control passive sampling devices 12
8.4 Passive sampling device controls 13

9 Selection of sampling site and safety precautions 14
9.1 Selection of sampling site 14
9.2 Appropriate precautions against accidents 14

10 Passive sampling device deployment and retrieval 15
10.1 Materials and apparatus 15
10.2 Transport 15
10.3 Deployment procedure 15
10.4 Retrieval procedure 16

11 Extraction of analytes from passive sampling devices and preparation for analysis 17

12 Analysis 17

13 Calculations 18

14 Test report 20

Annex A (informative) Tables providing a summary of the main types of passive sampling devices and a summary of the methods for their calibration 22

Annex B (normative) Materials and apparatus to be taken to the field for use in the deployment of passive sampling devices 24

Annex C (informative) Quality control measures 25

Bibliography 27