ISO 22155:2016-02 (E)

Soil quality - Gas chromatographic determination of volatile aromatic and halogenated hydro carbons and selected ethers - Static headspace method

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Principle 2

4 Reagents 2

5 Apparatus 6

6 Sampling, preservation, and sample pretreatment 7
6.1 General 7
6.2 Sampling using vials pre-filled with methanol 7
6.3 Sampling using coring tube method 8

7 Procedure 8
7.1 Blank determination 8
7.2 Extraction 8
7.3 Head-space analysis 8
7.4 Gas chromatographic analysis 9
7.4.1 General 9
7.4.2 Calibration 10
7.4.3 Measurement 11

8 Calculation 11
8.1 Calculation of the concentration of a volatile compound in the water sample 11
8.2 Calculation of the concentration of a volatile compound in the soil sample 12

9 Expression of results 12

10 Precision 12

11 Test report 12

Annex A (informative) Relative retention times with respect to ethylbenzene-D10 of volatile aromatic hydrocarbons and volatile halogenated hydrocarbons -- Examples of suitable target and qualifier ions 13

Annex B (normative) Check on internal standards 15

Annex C (informative) Validation (general) 16

Annex D (informative) Performance characteristics 19

Bibliography 21