

DIN EN ISO 15009:2013-06 (E)

Soil quality - Gas chromatographic determination of the content of volatile aromatic hydrocarbons, naphthalene and volatile halogenated hydrocarbons - Purge-and-trap method with thermal desorption (ISO 15009:2012)

Contents		Page
Foreword		3
1 Scope		4
2 Normative references		4
3 Principle		5
4 Reagents		5
4.1 Water, free of volatile aromatic and volatile halogenated hydrocarbons		5
4.2 Internal standard compounds		5
4.3 Standard compounds		6
4.4 Methanol (CAS RN 67-56-1)		7
4.5 Adsorbing agent		7
4.6 Cooling water for purge and trap		7
4.7 Inert carrier gas for the gas chromatograph		7
4.8 Nitrogen or helium as inert gas for the purge equipment		7
4.9 Standard solutions		7
5 Apparatus		8
6 Sampling, preservation and sample pretreatment		10
6.1 General		10
6.2 Sampling using vials prefilled with methanol		10
6.3 Sampling using coring tube method		10
7 Procedure		10
7.1 Blank determination		10
7.2 Extraction		11
7.3 Purge and trap		11
7.4 Gas chromatographic analysis		11
8 Calculation		13
9 Expression of results		14
10 Precision		14
11 Test report		14
Annex A (informative) Relative retention time with respect to ethylbenzene-D10 of volatile-aromatic hydrocarbons and volatile halogenated hydrocarbons on the following columns: CP-Sil 5 CB and CP-Sil 13 CB		15
Annex B (normative) Check on internal standards		16
Annex C (informative) Validation		17
Annex D (informative) Information on purge-and-trap instruments		20
Bibliography		21