

First edition
2015-08-15

AMENDMENT 1
2020-01

**Soil quality — Risk-based petroleum
hydrocarbons —**

Part 1:

**Determination of aliphatic and
aromatic fractions of volatile
petroleum hydrocarbons using gas
chromatography (static headspace
method)**

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AMENDMENT 1

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Qualité du sol — Hydrocarbures de pétrole à risque —

*Partie 1: Détermination des fractions aliphatiques et aromatiques
des hydrocarbures de pétrole volatils par chromatographie en phase
gazeuse (méthode par espace de tête statique)*

AMENDEMENT 1



Reference number
ISO 16558-1:2015/Amd.1:2020(E)

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This document was prepared by Technical Committee ISO/TC 190, *Soil quality*, Subcommittee SC 3, *Chemical methods and soil characteristics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 444, *Test methods for environmental characterization of solid matrices*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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Soil quality — Risk-based petroleum hydrocarbons —

Part 1:

Determination of aliphatic and aromatic fractions of volatile petroleum hydrocarbons using gas chromatography (static headspace method)

AMENDMENT 1

6.8.1, before first paragraph

Add

This paragraph describes the preparation of stock and working solutions. The procedure and figures (weights, volumes) are examples. The laboratory is free to use other amounts, if it is shown to be fit for purpose for the samples analyzed. However, the number of concentration levels for the calibration is, as a minimum, obligatory.

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6.8.1, third paragraph

Change

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For practical reasons, mixed standard stock solutions can also be used.

to

For practical reasons, mixed standard stock solutions prepared in the laboratory or/and commercially purchased can also be used.

9.4.1, second paragraph and NOTE

Change

Stationary phase: non-polar e.g. VF-624ms 20 m × 0,15 mm × 0,84 μm (Agilent) method (SIMDest)

NOTE VF-624ms is an example of a suitable product available commercially. This information is given for the convenience of users of this part of ISO 16558 and does not constitute an endorsement by ISO of this product.

to

Stationary phase: non-polar e. g. DB 1, SE 30 suitable for simulated distillation method (SIMDest)

NOTE DB 1 or SE 30 are examples of suitable products available commercially. This information is given for the convenience of users of this part of ISO 16558 and does not constitute an endorsement by ISO of this product.

9.4.2, after third paragraph

Add

In this International Standard, a linear calibration model is specified. Other calibration models (e.g. a quadratic calibration function) may be used if proven to be suitable.

Bibliography

Add

EN 14346, *Characterization of waste — Calculation of dry matter by determination of dry residue or water content*

EN 15934, *Sludge, treated biowaste, soil and waste — Calculation of dry matter fraction after determination of dry residue or water content*

EN 16179, *Sludge, treated biowaste and soil — Guidance for sample pretreatment*

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