
**Water quality — Determination of
low-volatility lipophilic substances —
Gravimetric method**

*Qualité de l'eau — Dosage des substances lipophiles peu volatiles —
Méthode gravimétrique*



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Foreword

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WARNING — Persons using this International Standard should be familiar with normal laboratory practice. This International Standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.

IMPORTANT — It is absolutely essential that tests conducted according to this International Standard be carried out by suitably trained staff.

1 Scope

This International Standard defines a method for the determination of lipophilic substances of low volatility in water using gravimetry.

The method is applicable to all kinds of water and allows the determination of low-volatility lipophilic substances which are suspended, emulsified, or dissolved, in concentrations of about 10 mg/l to 500 mg/l. Above this value, the test portion is diluted appropriately.

The method is not applicable to water with a separate oil layer.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3696, *Water for analytical laboratory use — Specification and test methods*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

low-volatility lipophilic substances

sum of substances extractable by non-polar hydrocarbons, determined gravimetrically after drying at 80 °C

NOTE Substances covered by this definition are unpolar or weakly polar, with a boiling point above 250 °C, and include mainly animal oils, vegetable oils, fats, greases, mineral oils, waxes, and non-ionic surfactants.

4 Principle

A test portion of water is extracted with an extracting agent. The extracting agent is evaporated. The mass of low-volatility lipophilic substances is determined by gravimetry.