

STN	Textílie Stanovenie obsahu ftalátov Tetrahydrofuránová metóda (ISO 14389: 2022)	STN EN ISO 14389 80 0819
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Textiles - Determination of the phthalate content - Tetrahydrofuran method (ISO 14389:2022)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/23

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EUROPEAN STANDARD

EN ISO 14389

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English Version

**Textiles - Determination of the phthalate content -
Tetrahydrofuran method (ISO 14389:2022)**Textiles - Détermination de la teneur en phtalates -
Méthode au tétrahydrofurane (ISO 14389:2022)Textilien - Bestimmung des Phthalatanteils -
Tetrahydrofuran-Verfahren (ISO 14389:2022)

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EN ISO 14389:2022 (E)

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European foreword

This document (EN ISO 14389:2022) has been prepared by Technical Committee ISO/TC 38 "Textiles" in collaboration with Technical Committee CEN/TC 248 "Textiles and textile products" the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2023, and conflicting national standards shall be withdrawn at the latest by April 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 14389:2014.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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Endorsement notice

The text of ISO 14389:2022 has been approved by CEN as EN ISO 14389:2022 without any modification.

INTERNATIONAL STANDARD

ISO 14389

Second edition
2022-10

Textiles — Determination of the phthalate content — Tetrahydrofuran method

*Textiles — Détermination de la teneur en phtalates — Méthode au
tétrahydrofurane*



Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 38, *Textiles*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 248, *Textiles and textile products*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 14389:2014), which has been technically revised.

The main changes are as follows:

- addition of the [Clause 2](#) “Normative references” and renumbering of subsequent clauses;
- replacement of the original internal standard (DCHP) with Benzyl 2-ethyl-hexyl phthalate;
- addition of five detected phthalates (including DCHP);
- replacement of the term “plasticized or soften material” with “plasticized material” in [3.1](#) (former 2.1);
- revision of the terms and definitions in [3.2](#) (former 2.2) and [3.3](#) (former 2.3);
- deletion of the frequency of thermostatic ultrasonic bath in [6.3](#) (former [5.3](#));
- deletion of “in duplicate” in [7.3.1](#) (former 6.2.1);
- revision of extract temperature from “(60 ± 5) °C” to “about 60 °C” in [7.3.3](#) (former 6.2.3);
- revision of [Formula \(1\)](#) and [Formula \(2\)](#) in [Clause 8](#) (former Clause 7);
- addition of the example of determining the mass of the plastic component (coating) in [Annex A](#).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document covers a test method for the determination of some phthalates in textile articles.

Phthalates are commonly used as plasticizers in polymers. Phthalates are an issue for textile manufacturers and retailers due to their use within motifs, coated fabrics, plastisol prints, buttons, etc.

Phthalates are controversial because high doses of many phthalates have shown hormonal activity in rodent studies. Studies on rodents involving large amounts of phthalates have shown damage to the liver, the kidneys, the lungs, and the developing testes.

Due to their potential effect as endocrine disruptors, some of the listed phthalates are toxic in reproduction. The listed phthalates are based on those which have been restricted in some regulations (for example, in the European Union).

Textiles — Determination of the phthalate content — Tetrahydrofuran method

WARNING — This document calls for the use of substances and/or procedures that can be injurious to health if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations relating to health and safety at any stage. It has been assumed in the drafting of this document that the execution of its provisions is entrusted to appropriately qualified and experienced operators.

1 Scope

This document specifies a method of determining phthalates in textiles with gas chromatography–mass spectrometry (GC-MS).

This document is applicable to textile products where there is a risk of the presence of some phthalates.

2 Normative references

There are no normative references in this document.

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