



# SLOVENSKI STANDARD SIST EN ISO 14389:2023

01-januar-2023

Nadomešča:  
SIST EN ISO 14389:2014

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## Tekstilije - Določevanje ftalatov - Tetrahidrofuranska metoda (ISO 14389:2022)

Textiles - Determination of the phthalate content - Tetrahydrofuran method (ISO 14389:2022)

Textilien - Bestimmung des Phthalatanteils - Tetrahydrofuran-Verfahren (ISO 14389:2022)

Textiles - Détermination de la teneur en phtalates - Méthode au tétrahydrofurane (ISO 14389:2022)

Ta slovenski standard je istoveten z: **EN ISO 14389:2022**

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### **ICS:**

59.060.01      Tekstilna vlakna na splošno      Textile fibres in general

**SIST EN ISO 14389:2023**

**en,fr,de**



EUROPEAN STANDARD

EN ISO 14389

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN ISO 14389:2014

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)

This European Standard was approved by CEN on 18 September 2022.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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| Contents               | Page |
|------------------------|------|
| European foreword..... | 3    |

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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of an identical text or by endorsement, at the latest by April 2023, and conflicting national standards shall be withdrawn at the latest by April 2023.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.

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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

SIST EN ISO 14389:2023

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

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**Textiles — Determination of the  
phthalate content — Tetrahydrofuran  
method**

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

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| <b>Contents</b>  |  | Page      |
|--|--|-----------|
| <b>Foreword</b> .....  |  | <b>iv</b> |
| <b>Introduction</b> .....  |  | <b>v</b>  |
| <b>1 Scope</b> .....   |  | <b>1</b>  |
| <b>2 Normative references</b> .....  |  | <b>1</b>  |
| <b>3 Terms and definitions</b> .....   |  | <b>1</b>  |
| <b>4 Principle</b> .....   |  | <b>1</b>  |
| <b>5 Reagents</b> .....  |  | <b>2</b>  |
| <b>6 Apparatus</b> .....   |  | <b>2</b>  |
| <b>7 Procedure</b> .....   |  | <b>3</b>  |
| 7.1 Cross-contamination provisions.....  |  | 3         |
| 7.2 Preparation of standard solutions.....   |  | 3         |
| 7.2.1 Internal standard solution.....  |  | 3         |
| 7.2.2 Preparation of stock standard solutions.....                                       |  | 3         |
| 7.2.3 Preparation of the calibration solutions.....                                      |  | 3         |
| 7.3 Ultrasonic extraction and determination of phthalates.....                           |  | 4         |
| 7.3.1 General.....   |  | 4         |
| 7.3.2 Preparation of test specimen.....  |  | 4         |
| 7.3.3 Extraction procedure.....  |  | 4         |
| 7.3.4 Phthalates determination.....  |  | 5         |
| <b>8 Calculation of the results</b> .....  |  | <b>5</b>  |
| 8.1 Calculation based on the corrected mass (by default).....                            |  | 5         |
| 8.2 Calculation based on the total mass (when relevant).....                             |  | 6         |
| <b>9 Test report</b> .....   |  | <b>6</b>  |
| <b>Annex A (normative) Calculations</b> .....  |  | <b>7</b>  |
| <b>Annex B (informative) Example of test parameters by GC-MS</b> .....                   |  | <b>10</b> |
| <b>Annex C (informative) Determination of PVC mass fraction by chemical method</b> ..... |  | <b>12</b> |
| <b>Annex D (informative) Statistical data</b> .....                                      |  | <b>15</b> |
| <b>Bibliography</b> .....  |  | <b>21</b> |

## ISO 14389:2022(E)

## 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](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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](http://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](http://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).

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