
Tekstilije in tekstilni izdelki - Določevanje organokositrnih spojin - 1. del: Metoda derivatizacije s plinsko kromatografijo (ISO 22744-1:2020)

Textiles and textile products - Determination of organotin compounds - Part 1: Derivatisation method using gas chromatography (ISO 22744-1:2020)

Textilien und textile Erzeugnisse - Bestimmung von zinnorganischen Verbindungen - Teil 1: Derivatisierung für das gaschromatische Verfahren (ISO 22744-1:2020)

Textiles et produits textiles - Détermination des composés organostanniques - Partie 1: Méthode de dérivation utilisant la chromatographie en phase (ISO 22744-1:2020)

Ta slovenski standard je istoveten z: EN ISO 22744-1:2020

ICS:

59.060.01 Tekstilna vlakna na splošno Textile fibres in general

SIST EN ISO 22744-1:2020

en,fr,de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Full standard:
<https://standards.iteh.ai/catalog/standards/sist/426348e6-8795-4ff0-9fb0-e397f21e1530/sist-en-iso-22744-1-2020>

EUROPEAN STANDARD

EN ISO 22744-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2020

ICS 59.080.01

English Version

Textiles and textile products - Determination of organotin compounds - Part 1: Derivatisation method using gas chromatography (ISO 22744-1:2020)

Textiles et produits textiles - Détermination des composés organostanniques - Partie 1: Méthode de dérivation utilisant la chromatographie en phase (ISO 22744-1:2020)

Textilien und textile Erzeugnisse - Bestimmung von zinnorganischen Verbindungen - Teil 1: Derivatisierung für das gaschromatische Verfahren (ISO 22744-1:2020)

This European Standard was approved by CEN on 24 April 2020.

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.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Page

European foreword..... 3

iTeh STANDARD PREVIEW
(standards.iteh.ai)
Full standard:
<https://standards.iteh.ai/catalog/standards/sist/426348c6-8795-4ff0-9fb0-e397f21e1530/sist-en-iso-22744-1-2020>

European foreword

This document (EN ISO 22744-1:2020) 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 December 2020, and conflicting national standards shall be withdrawn at the latest by December 2020.

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.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 22744-1:2020 has been approved by CEN as EN ISO 22744-1:2020 without any modification.

PREVIEW
iTech STANDARD
(standards.itteh.ai)
Full standard:
<https://standards.itteh.ai/catalog/standards/sist/42634866-8795-4ff0-9fb0-e397f21e1530/sist-ceniso-22744-1-2020>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Full standard:
<https://standards.iteh.ai/catalog/standards/sist/426348e6-8795-4ff0-9fb0-e397f21e1530/sist-en-iso-22744-1-2020>

INTERNATIONAL STANDARD

ISO
22744-1

First edition
2020-05

Textiles and textile products — Determination of organotin compounds —

Part 1: Derivatisation method using gas chromatography

*Textiles et produits textiles — Détermination des composés
organostanniques —*

*Partie 1: Méthode de dérivation utilisant la chromatographie en
phase gazeuse*



Reference number
ISO 22744-1:2020(E)

© ISO 2020

iTeh STANDARD PREVIEW
(standards.iteh.ai)
Full standard:
<https://standards.iteh.ai/catalog/standards/sist/426348c6-8795-4ff0-9fb0-e397f21e1530/sist-en-iso-22744-1-2020>

**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2020

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

| | |
|--|-----------|
| Foreword..... | iv |
| 1 Scope..... | 1 |
| 2 Normative references..... | 1 |
| 3 Terms and definitions..... | 1 |
| 4 Principle..... | 1 |
| 5 Reagents..... | 2 |
| 6 Apparatus and materials..... | 3 |
| 7 Preparation of the test piece..... | 3 |
| 8 Procedure..... | 4 |
| 8.1 General..... | 4 |
| 8.2 Preparation of the sodium tetraethylborate solution..... | 4 |
| 8.3 Preparation of standard solutions..... | 4 |
| 8.3.1 General..... | 4 |
| 8.3.2 Internal standards — Stock solution (100 mg/l of organotin cation)..... | 5 |
| 8.3.3 Internal standards — Working solution (10 mg/l of organotin cation)..... | 5 |
| 8.3.4 Target compounds — Stock solution (1 000 mg/l of organotin cation)..... | 6 |
| 8.3.5 Target compounds — Working solution (10 mg/l of organotin cation)..... | 6 |
| 8.4 Preparation of the tropolone solution..... | 6 |
| 8.5 Preparation of the buffer solution..... | 6 |
| 8.6 Preparation of the calibration solutions..... | 6 |
| 8.7 Sample preparation..... | 7 |
| 8.8 Preparation of the blank solution..... | 7 |
| 8.9 Gas chromatography..... | 7 |
| 9 Expression of results..... | 8 |
| 10 Test report..... | 10 |
| Annex A (informative) Suggested gas chromatography-mass spectrometry (GC-MS) conditions for organotin analysis..... | 11 |
| Annex B (informative) Reliability of the method..... | 12 |
| Bibliography..... | 13 |

ISO 22744-1:2020(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).

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).

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.

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

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.