

STN	Textílie a textilné výrobky Stanovenie niektorých zvyškových rozpúšťadiel Časť 2: Stanovenie benzénu, metóda s použitím plynovej chromatografie	STN EN 17134-2 80 0627
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Textiles and textile products - Determination of biocide additives - Part 2: Chlorophenol-based preservatives, method using gas chromatography

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. 10/23

Obsahuje: EN 17134-2:2023

Oznámením tejto normy sa ruší
STN EN 17134 (80 0627) z decembra 2019

137448

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2023
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii
v znení neskorších predpisov.

EUROPEAN STANDARD

EN 17134-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2023

ICS 59.080.01

Supersedes EN 17134:2019

English Version

Textiles and textile products - Determination of biocide additives - Part 2: Chlorophenol-based preservatives, method using gas chromatography

Textiles et produits textiles - Détermination des additifs biocides - Partie 2 : Conservateurs à base de chlorophénol, méthode par chromatographie en phase gazeuse

Textilien und textile Erzeugnisse - Bestimmung von Biozid-Zusatzstoffen - Teil 2: Konservierungsmittel auf Chlorphenolbasis, Verfahren mittels Gaschromatographie

This European Standard was approved by CEN on 12 June 2023.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EN 17134-2:2023 (E)

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European foreword

This document (EN 17134-2:2023) has been prepared by 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of an identical text or by endorsement, at the latest by January 2024, and conflicting national standards shall be withdrawn at the latest by January 2024.

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 17134:2019.

This document is part of a series of documents:

EN 17134-1¹, *Textiles and textile products — Determination of biocide additives — Part 1: 2-Phenylphenol and triclosan, method using liquid chromatography*

EN 17134-2, *Textiles and textile products — Determination of biocide additives — Part 2: Chlorophenol-based preservatives, method using gas chromatography*

EN 17134-3², *Textiles and textile products — Determination of biocide additives — Part 3: Permethrin, method using liquid chromatography*

A list of all parts in a series can be found on the CEN website: www.cencenelec.eu.

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¹ Under preparation. Stage at the time of publication: prEN 17134-1:2023.

² Under preparation. Stage at the time of publication: prEN 17134-3:2023.

Introduction

In Europe, according to Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants [1] pentachlorophenol (PCP) and its salts and esters as constituents of articles are prohibited. According to Commission Delegated Regulation (EU) 2021/277 of 16 December 2020 amending Annex I to Regulation (EU) 2019/1021 of the European Parliament and of the Council on persistent organic pollutants as regards pentachlorophenol and its salts and esters [2], articles containing PCP in concentrations equal or lower than 5 mg/kg are allowed.

Further chlorinated phenols are restricted by voluntary specifications (ecolabel criteria, industry initiatives and standards).

WARNING — The use of this document involves hazardous materials. It does not purport to address all of the safety or environmental problems associated with its use. It is the responsibility of users of this document to take appropriate measures to ensure the safety and health of personnel and the environment prior to application of the document and fulfil statutory and regulatory requirements for this purpose.

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1 Scope

This document specifies a test method using gas chromatography with a mass selective detector (GC-MS) for detection and quantification of chlorophenols (CPs), which are either freely present or released from salts and esters: pentachlorophenol (PCP), tetrachlorophenol- (TeCP), trichlorophenol- (TriCP), dichlorophenol- (DiCP) and monochlorophenol- (MoCP) isomers. The method is applicable to textile fibres, yarns, fabrics, coated fabrics, printed fabrics, plastic, and wooden parts of textile products (for example buttons).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN ISO 3696, *Water for analytical laboratory use - Specification and test methods (ISO 3696)*

EN ISO 4787, *Laboratory glass and plastic ware - Volumetric instruments - Methods for testing of capacity and for use (ISO 4787)*

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