



BSI Standards Publication

Textiles and textile products — Determination of certain residual solvents

Part 1: Determination of aprotic solvents, method using gas chromatography

National foreword

This British Standard is the UK implementation of EN 17131-1:2025. It supersedes BS EN 17131:2019, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee TCI/100, Co-ordination of activities in textiles and clothing.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2025
Published by BSI Standards Limited 2025

ISBN 978 0 539 28169 9

ICS 59.080.01

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 December 2025.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

English Version

**Textiles and textile products - Determination of certain
residual solvents - Part 1: Determination of aprotic
solvents, method using gas chromatography**

Textiles et produits textiles - Détermination de certains
solvants résiduels - Partie 1 : Détermination des
solvants aprotiques, méthode par chromatographie en
phase gazeuse

Textilien und textile Erzeugnisse - Bestimmung
bestimmter Lösungsmittelrückstände - Teil 1:
Bestimmung aprotischer Lösemittel, Verfahren mittels
Gaschromatographie

This European Standard was approved by CEN on 19 October 2025.

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, Türkiye 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
Introduction		5
1	Scope.....	6
2	Normative references.....	6
3	Terms and definitions	6
4	Principle	6
5	Reagents	6
6	Apparatus.....	7
7	Preparation of test samples	8
7.1	Sampling.....	8
7.2	Preparation of test specimens.....	8
8	Procedure.....	8
8.1	Extraction.....	8
8.2	Determination with GC-MS	8
8.2.1	Preparation of the calibration solutions	8
8.2.2	Determination with GC-MS	8
9	Expression of results.....	8
9.1	Calculation	8
9.2	Limits of quantification of the test method	9
9.3	Reliability of the test method	9
10	Test report.....	9
Annex A (informative) Example of instrumental conditions.....		10
A.1	Measuring technique	10
A.2	Chromatographic conditions	10
A.3	MS conditions	10
Annex B (informative) Reliability of the method.....		12
Bibliography		13

European foreword

This document (EN 17131-1:2025) 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 June 2026, and conflicting national standards shall be withdrawn at the latest by June 2026.

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 17131:2019.

This document includes the following significant technical changes with respect to EN 17131:2019:

- the title has been changed;
- *N,N*-dimethylacetamide (DMAC) and *N*-methyl-2-pyrrolidone (NMP) have been included in the Introduction;
- Clause 1: The scope has been extended to include the analytes DMAC, NMP and *N*-ethyl-2-pyrrolidone (NEP);
- Clause 5: DMAC, NMP and NEP have been added;
- 5.7: The descriptions of the preparation of stock solutions have been changed in order to consider the additional analytes DMAC, NMP and NEP;
- 8.2: The description of the determination with GC-MS has been changed in order to consider the additional analytes DMAC, NMP and NEP;
- 9.1: The headline has been added and the description of the calculation has been changed in order to consider the additional analytes DMAC, NMP and NEP;
- 9.2 and 9.3: Precision of the method including the limit of quantification of the test method has been added;
- Clause 10 has been rephrased;
- Annex A has been extended to include the analytes DMAC, NMP and NEP;
- Annex B: Reliability of the method has been added including certain statistical data of an interlaboratory trial to determine the reliability of the method.

This document is Part 1 of the EN 17131 series of standards under the title *Textiles and textile products* — *Determination of certain residual solvents*:

- *Part 1: Determination of aprotic solvents, method using gas chromatography* (this document);
- *Part 2: Determination of benzene, method using headspace gas chromatography*.

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