
E-tekočine - Ugotavljanje deleža nikotina, propilenglikola in glicerola v tekočinah, ki se uporabljajo v elektronskih napravah za dovajanje nikotina - Metoda plinske kromatografije (ISO 20714:2019)

E-liquid - Determination of nicotine, propylene glycol and glycerol in liquids used in electronic nicotine delivery devices - Gas chromatographic method (ISO 20714:2019)

E-Liquids - Bestimmung von Nikotin, Propylenglycol und Glycerin in Flüssigkeiten, die in elektronischen Nikotinabgabegeräten verwendet werden - Gaschromatographisches Verfahren (ISO 20714:2019)

E-liquide - Détermination de la teneur en nicotine, propylène glycol et glycérol dans les liquides utilisés avec les systèmes électroniques de délivrance de nicotine - Méthode par chromatographie en phase gazeuse (ISO 20714:2019)

<https://standards.iteh.ai/catalog/standards/sist/575e391b-72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022>

Ta slovenski standard je istoveten z: EN ISO 20714:2021

ICS:

65.160	Tobak, tobačni izdelki in oprema	Tobacco, tobacco products and related equipment
--------	----------------------------------	---

SIST EN ISO 20714:2022

en,fr,de

**iTeh STANDARD
PREVIEW
(standards.iteh.ai)**

[SIST EN ISO 20714:2022](https://standards.iteh.ai/catalog/standards/sist/575e391b-72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022)

<https://standards.iteh.ai/catalog/standards/sist/575e391b-72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022>

EUROPEAN STANDARD

EN ISO 20714

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2021

ICS 65.160

English Version

E-liquid - Determination of nicotine, propylene glycol and glycerol in liquids used in electronic nicotine delivery devices - Gas chromatographic method (ISO 20714:2019)

E-liquide - Détermination de la teneur en nicotine, propylène glycol et glycérol dans les liquides utilisés avec les systèmes électroniques de délivrance de nicotine - Méthode par chromatographie en phase gazeuse (ISO 20714:2019)

E-Liquids - Bestimmung von Nikotin, Propylenglycol und Glycerin in Flüssigkeiten, die in elektronischen Nikotinabgabegeräten verwendet werden - Gaschromatographisches Verfahren (ISO 20714:2019)

This European Standard was approved by CEN on 5 December 2021.

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)**

[SIST EN ISO 20714:2022](https://standards.iteh.ai/catalog/standards/sist/575e391b-72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022)
<https://standards.iteh.ai/catalog/standards/sist/575e391b-72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022>

European foreword

The text of ISO 20714:2019 has been prepared by Technical Committee ISO/TC 126 "Tobacco and tobacco products" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 20714:2021 by Technical Committee CEN/TC 437 "Electronic cigarettes and e-liquids" the secretariat of which is held by AFNOR.

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 2022, and conflicting national standards shall be withdrawn at the latest by June 2022.

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.

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

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 20714:2019 has been approved by CEN as EN-ISO 20714:2021 without any modification.

<https://standards.iteh.ai/catalog/standards/sist/575e391b-72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022>

**iTeh STANDARD
PREVIEW
(standards.iteh.ai)**

[SIST EN ISO 20714:2022](https://standards.iteh.ai/catalog/standards/sist/575e391b-72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022)

<https://standards.iteh.ai/catalog/standards/sist/575e391b-72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022>

INTERNATIONAL
STANDARD

ISO
20714

First edition
2019-08

**E-liquid — Determination of
nicotine, propylene glycol and
glycerol in liquids used in electronic
nicotine delivery devices — Gas
chromatographic method**

iTeh STANDARD
PREVIEW
(standards.iteh.ai)

E-liquide — Détermination de la teneur en nicotine, propylène glycol et glycérol dans les liquides utilisés avec les systèmes électroniques de délivrance de nicotine — Méthode par chromatographie en phase gazeuse

[SIST EN ISO 20714:2022](https://standards.iteh.ai/catalog/standards/sist/575e391b-72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022)

<https://standards.iteh.ai/catalog/standards/sist/575e391b-72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022>



Reference number
ISO 20714:2019(E)

© ISO 2019

**iTeh STANDARD
PREVIEW
(standards.iteh.ai)**

[SIST EN ISO 20714:2022](https://standards.iteh.ai/catalog/standards/sist/575e391b-72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022)

<https://standards.iteh.ai/catalog/standards/sist/575e391b-72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2019

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.....	1
6 Apparatus.....	2
7 Sampling.....	3
8 Procedure.....	3
8.1 Test portion.....	3
8.2 Setting up the apparatus.....	3
8.3 Calibration of the gas chromatograph.....	4
8.4 Determination.....	4
9 Expression of results.....	4
10 Repeatability and reproducibility.....	4
11 Test report.....	5
Annex A (informative) Example chromatogram.....	6
Bibliography.....	7

iTeh STANDARD
PREVIEW
(standards.iteh.ai)

[SIST EN ISO 20714:2022](https://standards.iteh.ai/catalog/standards/sist/575e391b-72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022)

<https://standards.iteh.ai/catalog/standards/sist/575e391b-72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022>

ISO 20714:2019(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 on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 126, *Tobacco and tobacco products*, Subcommittee SC 3, *Vape and vapour products*.

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.

<https://www.iso.org/standard/72e1-459c-8c4b-b872d3ec067c/sist-en-iso-20714-2022>