



SLOVENSKI STANDARD

SIST EN ISO 6145-10:2008

01-oktober-2008

5 bU]nUd`]bcj `!`Df]dfUj U_ U]VfUW]g_Y'd`]bg_Y'na Yg]`n'i dcfUVc`X]bUa] b]`
j c`i a Yf] b]`a YtcX`!`%`"XY.`A YtcXUdfcb]WUb`Uf]GC`*`%`) !`\$.`&\$`&L

Gas analysis - Preparation of calibration gas mixtures using dynamic volumetric methods
- Part 10: Permeation method (ISO 6145-10:2002)

Gasanalyse - Herstellung von Kalibriergasgemischen mit Hilfe von dynamisch-
volumetrischen Verfahren - Teil 10: Permeationsverfahren (ISO 6145-10:2002)

Analyse des gaz - Préparation des mélanges de gaz pour étalonnage à l'aide de
méthodes volumétriques dynamiques - Partie 10: Méthode par perméation (ISO 6145-
10:2002)

Ta slovenski standard je istoveten z: EN ISO 6145-10:2008

ICS:

71.040.40 Kemijska analiza Chemical analysis

SIST EN ISO 6145-10:2008 en

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

SIST EN ISO 6145-10:2008

<https://standards.iteh.ai/catalog/standards/sist/1161068e-83a7-4a62-9783-ee174ef1f74b/sist-en-iso-6145-10-2008>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 6145-10

August 2008

ICS 71.040.40

English Version

Gas analysis - Preparation of calibration gas mixtures using
dynamic volumetric methods - Part 10: Permeation method (ISO
6145-10:2002)

Analyse des gaz - Préparation des mélanges de gaz pour
étalonnage à l'aide de méthodes volumétriques
dynamiques - Partie 10: Méthode par perméation (ISO
6145-10:2002)

Gasanalyse - Herstellung von Kalibriergasgemischen mit
Hilfe von dynamisch-volumetrischen Verfahren - Teil 10:
Permeationsverfahren (ISO 6145-10:2002)

This European Standard was approved by CEN on 30 July 2008.

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 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 Management Centre has the same status as the official versions.

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



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

Page

Foreword.....	3
---------------	---

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 6145-10:2008

<https://standards.iteh.ai/catalog/standards/sist/1161068e-83a7-4a62-9783-ee174ef1f74b/sist-en-iso-6145-10-2008>

Foreword

The text of ISO 6145-10:2002 has been prepared by Technical Committee ISO/TC 158 "Analysis of gases" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 6145-10:2008 by Technical Committee CEN/SS N21 "Gaseous fuels and combustible gas" the secretariat of which is held by CMC.

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 February 2009, and conflicting national standards shall be withdrawn at the latest by February 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

iTeh STANDARD PREVIEW
Endorsement notice
(standards.iteh.ai)

The text of ISO 6145-10:2002 has been approved by CEN as a EN ISO 6145-10:2008 without any modification.

[SIST EN ISO 6145-10:2008](https://standards.iteh.ai/catalog/standards/sist/1161068e-83a7-4a62-9783-ee174ef1f74b/sist-en-iso-6145-10-2008)

<https://standards.iteh.ai/catalog/standards/sist/1161068e-83a7-4a62-9783-ee174ef1f74b/sist-en-iso-6145-10-2008>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 6145-10:2008

<https://standards.iteh.ai/catalog/standards/sist/1161068e-83a7-4a62-9783-ee174ef1f74b/sist-en-iso-6145-10-2008>

INTERNATIONAL STANDARD

ISO
6145-10

First edition
2002-02-01

Gas analysis — Preparation of calibration gas mixtures using dynamic volumetric methods —

Part 10: Permeation method

iTeh STANDARD PREVIEW

*Analyse des gaz — Préparation des mélanges de gaz pour étalonnage à
l'aide de méthodes volumétriques dynamiques —*

Partie 10: Méthode par perméation

SIST EN ISO 6145-10:2008

[https://standards.iteh.ai/catalog/standards/sist/1161068e-83a7-4a62-9783-
ee174ef1f74b/sist-en-iso-6145-10-2008](https://standards.iteh.ai/catalog/standards/sist/1161068e-83a7-4a62-9783-ee174ef1f74b/sist-en-iso-6145-10-2008)



Reference number
ISO 6145-10:2002(E)

© ISO 2002

ISO 6145-10:2002(E)

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 6145-10:2008](https://standards.iteh.ai/catalog/standards/sist/1161068e-83a7-4a62-9783-ee174ef1f74b/sist-en-iso-6145-10-2008)

<https://standards.iteh.ai/catalog/standards/sist/1161068e-83a7-4a62-9783-ee174ef1f74b/sist-en-iso-6145-10-2008>

© ISO 2002

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.ch
Web www.iso.ch

Printed in Switzerland

Contents

Page

Foreword.....	iv
Introduction	v
1 Scope	1
2 Normative reference	1
3 Principle.....	1
4 Reagents and materials	2
5 Apparatus	2
6 Procedure	5
6.1 Preliminary checks and operating conditions.....	5
6.2 Determination of mass loss.....	6
7 Expression of results	7
7.1 Calculation	7
7.2 Sources of uncertainty.....	8
7.3 Estimation of uncertainties.....	10
7.4 Example calculation of uncertainties	13
Annex A (informative) Example of uncertainty calculation for a two-pan continuous weighing system	14
Bibliography.....	16

[SIST EN ISO 6145-10:2008](https://standards.iteh.ai/catalog/standards/sist/1161068e-83a7-4a62-9783-ee174ef1f74b/sist-en-iso-6145-10-2008)

<https://standards.iteh.ai/catalog/standards/sist/1161068e-83a7-4a62-9783-ee174ef1f74b/sist-en-iso-6145-10-2008>

ISO 6145-10:2002(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 6145 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 6145-10 was prepared by Technical Committee ISO/TC 158, *Analysis of gases*.

It cancels and replaces ISO 6349:1979 which has been technically revised.

ISO 6145 consists of the following parts, under the general title: *Gas analysis — Preparation of calibration gas mixtures using dynamic volumetric methods*:

- *Part 1: Methods of calibration*
- *Part 2: Volumetric pumps*
- *Part 4: Continuous injection method*
- *Part 5: Capillary calibration devices*
- *Part 6: Critical orifices*
- *Part 7: Thermal mass-flow controllers*
- *Part 9: Saturation method*
- *Part 10: Permeation method*

Diffusion will be the subject of a future part 8 to ISO 6145. Part 3 to ISO 6145, entitled *Periodic injections into a flowing gas stream*, has been withdrawn by Technical Committee ISO/TC 158, *Analysis of gases*.

Annex A of this part of ISO 6145 is for information only.

Introduction

This part of ISO 6145 is one of a series of standards dealing with various dynamic volumetric methods used for the preparation of calibration gas mixtures.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 6145-10:2008](https://standards.iteh.ai/catalog/standards/sist/1161068e-83a7-4a62-9783-ee174ef1f74b/sist-en-iso-6145-10-2008)

<https://standards.iteh.ai/catalog/standards/sist/1161068e-83a7-4a62-9783-ee174ef1f74b/sist-en-iso-6145-10-2008>