



**SLOVENSKI STANDARD**  
**SIST EN ISO 16664:2017**

**01-september-2017**

**Nadomešča:**  
**SIST EN ISO 16664:2008**

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**Analiza plinov - Ravnanje s kalibracijskimi plini in plinskimi zmesmi - Smernice**  
**(ISO 16664:2017)**

Gas analysis - Handling of calibration gases and gas mixtures - Guidelines (ISO 16664:2017)

Gasanalyse - Handhabung von Kalibriergasen und Gasgemischen - Richtlinien (ISO 16664:2017)

Analyse des gaz - Mise en oeuvre des gaz et des mélanges de gaz pour étalonnage - Lignes directrices (ISO 16664:2017)

**Ta slovenski standard je istoveten z: EN ISO 16664:2017**

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**ICS:**

71.040.40      Kemijska analiza      Chemical analysis

**SIST EN ISO 16664:2017**      **en,fr,de**

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EUROPEAN STANDARD

EN ISO 16664

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 71.040.40

Supersedes EN ISO 16664:2008

English Version

## Gas analysis - Handling of calibration gases and gas mixtures - Guidelines (ISO 16664:2017)

Analyse des gaz - Mise en oeuvre de gaz et des mélanges de gaz pour étalonnage - Lignes directrices (ISO 16664:2017)

Gasanalyse - Handhabung von Kalibriergasen und Gasgemischen - Richtlinien (ISO 16664:2017)

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

This document (EN ISO 16664:2017) has been prepared by Technical Committee ISO/TC 158 "Analysis of gases".

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of an identical text or by endorsement, at the latest by December 2017, and conflicting national standards shall be withdrawn at the latest by December 2017.

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INTERNATIONAL  
STANDARD

ISO  
16664

Second edition  
2017-05

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**Gas analysis — Handling of calibration  
gases and gas mixtures — Guidelines**

*Analyse des gaz — Mise en oeuvre des gaz et des mélanges de gaz  
pour étalonnage — Lignes directrices*

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## ISO 16664:2017(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](http://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](http://www.iso.org/patents)).

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This document was prepared by Technical Committee ISO/TC 158, *Analysis of gases*.

This second edition cancels and replaces the first edition (ISO 16664:2004), which has been technically revised. The major changes are the following:

- [Figures 1](#) and [5](#) have been revised to more clearly depict the arrangements;
- several references and terminological entries have been updated.

## Introduction

This document uses the terms “calibration gas” for both gas mixtures and pure gases as the limiting case of gas mixtures.

The quality of calibration gases in cylinders as certified by producers is defined by

- a) the correct analyte content;
- b) a known uncertainty which is appropriate for its intended use;
- c) the stability;
- d) the homogeneity.

During its utilization period, the quality of calibration gases is influenced by

- storage conditions at the manufacturer’s and user’s sites;
- transport conditions;
- modes of calibration gas withdrawal and transfer;
- the transfer system employed.

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