

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

ICS 71.040.40

## National foreword

This British Standard is the UK implementation of EN ISO 16664:2008. It is identical with ISO 16664:2004. It supersedes BS ISO 16664:2004 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PTI/15, Natural gas and gas analysis.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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

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### Amendments/corrigenda issued since publication

| Date         | Comments                                                             |
|--------------|----------------------------------------------------------------------|
| 30 June 2009 | This corrigendum renumbers BS ISO 16664:2004 as BS EN ISO 16664:2008 |
|              |                                                                      |
|              |                                                                      |
|              |                                                                      |

English Version

Gas analysis - Handling of calibration gases and gas mixtures -  
Guidelines (ISO 16664:2004)

Analyse des gaz - Manutention des gaz et des mélanges  
de gaz pour étalonnage - Lignes directrices (ISO  
16664:2004)

Gasanalyse - Handhabung von Kalibriergasen und  
Gasgemischen - Richtlinien (ISO 16664:2004)

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

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## Foreword

The text of ISO 16664:2004 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 16664:2008 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of an identical text or by endorsement, at the latest by February 2009, and conflicting national standards shall be withdrawn at the latest by February 2009.

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### Endorsement notice

The text of ISO 16664:2004 has been approved by CEN as a EN ISO 16664:2008 without any modification.

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## **Introduction**

This International Standard 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.

