
**Gas analysis — Preparation of calibration
gas mixtures — Static volumetric method**

*Analyse des gaz — Préparation des mélanges de gaz pour
étalonnage — Méthode volumétrique statique*

www.iso.org



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.

© ISO 2003

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 0111
Fax + 41 22 749 0947
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Apparatus	2
6 Procedure for preparing the calibration gas mixture	4
7 Calculation of the volume fraction of the calibration component in the gas mixture	7
8 Determination of the uncertainty in the concentration of the calibration component in the gas mixture	9
Annex A (informative) Example of an apparatus suitable for the preparation of calibration gas mixtures by the static volumetric method	12
Annex B (informative) Example of determination of the volume of metering syringes	15
Annex C (informative) Example of the determination of the uncertainty in the concentration of a calibration gas mixture prepared by the static volumetric method	17
Annex D (informative) Example of the determination of the stability, as a function of time, of prepared calibration gas mixtures	22
Bibliography	29