ISO 6144:2003-02 (E)

Gas analysis - Preparation of calibration gas mixtures - Static volumetric method

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