DIN EN ISO 6142:2006-11 (E)

Gas analysis - Preparation of calibration gas mixtures - Gravimetric method (ISO 6142:2001)

Contents

Page

Foreword 3

1 Scope 4

2 Normative references 4

3 Principle 4

4 Preparation of the mixture 5

5 Calculation of uncertainty 10

6 Verification of calibration gas mixture composition 12

7 Test report 13

Annex A (informative) Practical example 14

Annex B (informative) Guidelines for estimating filling pressures so as to avoid condensation of condensable components in gas mixtures 25

Annex C (informative) Precautions to be taken when weighing, handling and filling cylinders 28

Annex D (informative) Derivation of the equation for calculating the calibration gas mixture composition 32

Annex E (informative) Sources of error 34

Annex F (informative) Estimation of corrections and correction uncertainty 36

Annex G (informative) Computer implementation of recommended methods 38

Bibliography 39