ISO 6974-2:2001-02 (E)

Natural gas - Determination of composition with defined uncertainty by gas chromatography - Part 2 : Measuring-system characteristics and statistics for processing of data

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Symbols and subscripts 2
4.1 Symbols 2
4.2 Subscripts 3

5 Procedure 4
5.1 Step 1: Determination of the optimal response functions 4
5.2 Step 2: Selection of the response functions to be used in practice 8
5.3 Step 3: Routine calibration with a working-reference gas mixture 10
5.4 Step 4: Calculation of non-normalized component mole fractions 10
5.5 Step 5: Calculation of non-normalized component standard deviations 10
5.6 Step 6: Calculation of normalized component mole fractions 12
5.7 Step 7: Calculation of normalized component standard deviations 12
5.8 Step 8: Calculation of uncertainty and repeatability of the results 13

Annex A (informative) Critical values of t 14

Annex B (informative) Example 15

Annex C (informative) Relative response factors (K) 23

Bibliography 24