

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