

# ISO 6974-2:2012-05 (E)

## Natural gas - Determination of composition and associated uncertainty by gas chromatography - Part 2: Uncertainty calculations

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Symbols .....	1
4.1	Symbols .....	1
4.2	Subscripts .....	2
5	Calculation of uncertainty .....	2
5.1	General considerations .....	2
5.2	Principles .....	5
5.3	Step 9 -- Calculation of uncertainty of mole fractions .....	5
5.4	Step 10 -- Calculation of the expanded uncertainty of mole fractions .....	11
Annex A (informative) Calculation of processed component uncertainties for the methane-by-difference approach .....		12
Annex B (normative) Uncertainties of relative response factors .....		13
Annex C (informative) Alternative calculation of the uncertainty of the value of the unknown .....		14
Bibliography .....		16