

DIN EN ISO 6974-2:2012-11 (E)

Natural gas - Determination of composition and associated uncertainty by gas chromatography - Part 2: Uncertainty calculations (ISO 6974-2:2012)

Contents	Page
Foreword	4
Introduction	5
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Symbols	5
4.1 Symbols	5
4.2 Subscripts	6
5 Calculation of uncertainty	6
5.1 General considerations	6
5.2 Principles	9
5.3 Step 9 — Calculation of uncertainty of mole fractions	9
5.4 Step 10 — Calculation of the expanded uncertainty of mole fractions	15
Annex A (informative) Calculation of processed component uncertainties for the methane-by-difference approach	16
Annex B (normative) Uncertainties of relative response factors	17
Annex C (informative) Alternative calculation of the uncertainty of the value of the unknown	18
Bibliography	20