ISO 24894:2026-01 (E)

Analysis of natural gas - Determination of sulfur compounds - Determination of hydrogen sulfide by laser absorption spectroscopy

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Principle 1

5 Reagents and material 2
5.1 Calibration gas 2
5.2 Methane 2
5.3 Absorption solution for hydrogen sulfide 3

6 Measurement device 3
6.1 General requirements 3
6.2 Laser generator 3
6.3 Pretreatment system 3
6.3.1 Filter unit 3
6.3.2 Pressure control unit 3
6.3.3 Flow control unit 3

7 Sample 3

8 Measurement 4
8.1 Preparation 4
8.2 Calibration of analyser 4
8.2.1 Calibration frequency 4
8.2.2 Calibration procedure 4
8.2.3 Calibration method 4

9 Analysis 4

10 Precision and measurement uncertainty 4
10.1 Repeatability 4
10.2 Uncertainty evaluation 5

11 Test report 5

Annex A (informative) Example of statistical procedure for estimation of the repeatability 6

Bibliography 9