ISO 2620:2024-03 (E)

Analysis of natural gas - Biomethane - Determination of VOCs by thermal desorption gas chromatography with flame ionization and/or mass spectrometry detectors

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Principle 1

5 Reagents and materials 1
5.1 Individual VOCs 1
5.2 Dilution solvent 2
5.3 Sorbents 2

6 Apparatus 2

7 Preparation 2
7.1 Field tube blanks 2
7.2 Solutions for liquid spiking 3
7.2.1 General 3
7.2.2 Solution containing approximately 0,2 mg/ml of each component 3
7.2.3 Solution containing approximately 0,04 mg/ml of each component 3
7.2.4 Solution containing approximately 0,01 mg/ml of each component 3
7.2.5 Standard tubes loaded with liquid spiking 3

8 Sampling 3

9 Sample handling 4

10 Procedure 4
10.1 Desorption and analysis 4
10.2 Quantification 6
10.3 Calculations 6

11 Quality assurance 7

12 Test report 7

Bibliography 8