ISO 2613-1:2023-05 (E)

Analysis of natural gas - Silicon content of biomethane - Part 1: Determination of total silicon by atomic emission spectroscopy (AES)

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principle 2

5 Reagents and labware 2

6 Apparatus 6
6.1 Sampling and derivatization equipment 6
6.2 MWP/ICP-AES instrument 7
6.3 Analytical balance, capable of weighing to the nearest 0,01 mg 7

7 Sampling 7

8 Derivatization 9

9 Analytical procedure 9
9.1 Set-up of the equipment 9
9.2 Calibration line 10
9.3 Analysis of unknown and QC samples 10

10 Calculation 10

11 Expression of results 11

12 Precision of the method 11

13 Measurement uncertainty 11

14 Test report 12

Bibliography 13