CERTIFICATE OF ANALYSIS

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Approved signatory Name: Ryan Richards

Signature

Issued by EffecTech Date of issue 08 August 2024

Certificate number 24/0055/14





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: Gas Networks Ireland Customer

Gasworks Road, Cork, County Cork, T12 RX96, Ireland.

Analysis method : Sample analysed by comparison with a reference gas mixture using a single-point calibration design (SPO) in

accordance with ISO 12963 Gas analysis - Comparison methods for the determination of the composition of gas mixtures based on one- and two-point calibration using high precision gas chromatography with a sulphur

chemiluminescence detector (GC-SCD)

Sample identification : Sample point: SC-2002 Bellanaboy, 2024-07-23, 08:30 hrs, line pressure 75.6 bar,

line temperature 23.4 ℃.

Other details: Dewpoint: -16.7 ℃.

Date of analysis : 08 August 2024

This laboratory was not responsible for the sampling stage as the sample and sample identification information was provided by the customer. The results presented in this certificate apply to the sample analysed on an as received basis.

Composition

component	amount fraction
	(µmol/mol)
hydrogen sulphide	< 0.030
carbonyl sulphide	< 0.030
methyl mercaptan	< 0.030
ethyl mercaptan	< 0.030
dimethyl sulphide	0.611 ± 0.042
methyl ethyl sulphide	< 0.030
iso-propyl mercaptan	< 0.030
n-propyl mercaptan	< 0.030
tert-butyl mercaptan	1.667 ± 0.063
diethyl sulphide	< 0.030
n-butyl mercaptan	< 0.030

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, which for a normal distribution provides a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with JCGM 100:2008 - Evaluation of measurement data -Guide to the expression of uncertainty in measurement (GUM).

this certificate according to ISO/IEC 17025:2017.

EffecTech is accredited by UKAS to This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides undertake the analysis presented traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

The laboratory activities reported were performed at the location of the issuing body The reference values reported relate only to the specific sample identified in this certificate