



## ACCREDITATION DOCUMENT

# RMP 001

### **NIPPON GASES NORGE AS**

Avd. Spesialgass Rjukan  
Hydroparken 235  
3660 Rjukan

The scope of accreditation is in accordance with the specifications on the following pages in this document.

The accreditation was initially granted 25.11.2021. The accreditation is given according to "Law on the free exchange of goods in the European Economic Area" of 14.04.2013.

The laboratory complies with the requirements in  
NS-EN ISO 17034:2016.

The accreditation requires regular surveillance and is valid until 25.11.2026.  
The decision of accreditation made by Norwegian Accreditation implies that the organisation has been found to fulfil the requirements for accreditation within the scope.  
The organisation itself is responsible for the results of performed measurements.

NORWEGIAN ACCREDITATION

Administrative/geographical unit:

**Nippon Gases Norge AS, avd. Spesialgass Rjukan**  
**Hydroparken 235**  
**3660 Rjukan**

Certified Reference Materials (CRM)

Characterisation Procedure / Technique: Production of Natural Gas mixtures in accordance with ISO 6142, ISO 6143 og ISO 6975 (internal method 12-8741, AM52).

Property identity	Characterisation range (% mol/mol)	Measurement capabilities (CMC)	
		Characterisation range (% mol/mol)	Rel % uncertainty
Methane	55 - 100	55 - 100	0,2
Ethane	0,008 – 14	0,008 – 0,1 0,1 – 1 1 – 10 10 – 14	2 1 0,5 0,2
Propane	0,008 – 8	0,008 – 0,1 0,1 – 1 1 – 8	2 1 0,5
Isobutane	0,004 – 1,4	0,004 – 0,1 0,1 – 1 1 – 1,4	2 1 0,5
n-Butane	0,004 – 1,4	0,004 – 0,1 0,1 – 1 1 – 1,4	2 1 0,5
Isopentane	0,0025 – 0,6	0,0025 – 0,1 0,1 – 0,6	2 1
n-Pentane	0,0025 – 0,6	0,0025 – 0,1 0,1 – 0,6	2 1
Neopentane	0,0007 – 0,5	0,0007 – 0,001 0,001 – 0,1 0,1 – 0,5	3 2 1
n-Hexane	0,0008 – 0,35	0,0008 – 0,001 0,001 – 0,1 0,1 – 0,35	3 2 1
n-Heptane	0,01 – 0,03	0,01 – 0,03	2
Carbon dioxide	0,04 – 25	0,04 – 0,1 0,1 – 1 1 – 10 10 – 25	2 1 0,5 0,2
Nitrogen	0,02 – 25	0,02 – 0,1 0,1 – 1 1 – 10 10 – 25	2 1 0,5 0,2
Helium	0,04 – 0,4	0,04 – 0,1 0,1 – 0,4	2 1