



# Certificate of Reference Material

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Customer : RIGAS

Certification No. : SAMPLE

Name : Sulfur dioxide 100  $\mu\text{mol/mol}$  / Nitrogen

CRM Code : CRM112-RG-01002

Intended Use : Process management

Date of Certification : 2023. 02. 01

Cylinder Number : SAMPLE

Cylinder spec : 10 L

Expiring Date : 2024. 01. 31

Filling amount : 10 MPa

Valve spec : 22-RH

Certificated Valued and Uncertainty

Storage conditions and handling precautions  
: See back side

Material name	Certificated Value	Uncertainty (level of confidence about 95 %, $k = 2$ )
Sulfur dioxide ( $\text{SO}_2$ )	100.0 $\mu\text{mol/mol}$	2.0 $\mu\text{mol/mol}$
Nitrogen		Balance

Method of Analysis : KS I ISO 6142, KS I ISO 6143

Traceability : The values on this certificate are traceable to CRM of the National Metrology Institute.

This Certificate is not valid without a signature.

Verify the authenticity of this Certificate by contacting us by email or phone above.

Certified by

Approved by

HAYOUNG KWON : (Signature)

DOOSUN KIM : (Signature)

This certificate results are in the scope of KS A ISO 17034 and part of the KOLAS accreditation.  
This certificate is the result of a certified reference material from the Korean Accreditation  
Organization (KOLAS) under KS A ISO 17034.

2023. 02. 01

Accredited by KOLAS, Republic of KOREA

RIGAS

CEO

(Signature)

# Storage & Handling Guideline

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Please use the certified standard material according to the usage guideline below.

## 1. Usage Guidelines

- To make same condition on laboratory settings environment, keep the materials in the test laboratory at least 24hours prior to use.
- Always use an adequate pressure regulator.
- Always check and record the remaining pressure.
- Make sure that reducing valve should not be stained with oil or grease.
- Do not subject high-pressure cylinder to any shock.
- Check the expiration date and use unexpired one.
- Dispose of used cylinder (according to statutory regulation)
- Use in keep the material above 20 °C to avoid liquefaction.

## 2. Required Storage Guidelines

- Keep it in well-ventilated and away from direct sunshine area.
- Charged cylinder must be always kept in temperature below 40°C.
- Keep away from fire and flame.
- Cylinders must always be kept chained or roped to prevent fall.

## 3. Safety Information

- For detailed safety information such as physical and chemical properties, hazard identification and toxicological information dangerous information, please refer to Material Safety Data Sheet (MSDS) provided by RIGAS.