



財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

(Certificate No : R001-250814)

This is to certify that

National Measurement Laboratory, R.O.C.

No.321, Sec. 2, Kuang Fu Rd., Hsinchu City, Taiwan, R.O.C.

is accredited in respect of Reference Material Producer

Accreditation Criteria : ISO 17034:2016

Accreditation Number : R001

Originally Accredited : April 16, 2012

Effective Period : October 28, 2025 to October 27, 2030

Accredited Scope : Gas mixtures, see described in the Appendix



Scan to verify

Yi-Ling Chen

Yi-Ling Chen
President, Taiwan Accreditation Foundation
August 14, 2025

Accreditation Number : R001

Producer Head : LAN, Yu-Ping

Category and Subcategory of RMs Produced	RM Types (CRM/RM)	Item/Parameter	Measurement Method /Technique	Approach used to assign Property values	Approval Signatory
A7.1 Gas mixtures	CRM	<p>C₃H₈ in N₂ : (0.1 to 50) mmol/mol $U_r = (0.5 \text{ to } 1.0) \%$</p> <p>CF₄ in N₂ : (100 to 3000) $\mu\text{mol/mol}$ $U_r = (0.3 \text{ to } 1.0) \%$</p> <p>CH₄ in Air : (1.0 to 20) mmol/mol $U_r = (0.3 \text{ to } 0.8) \%$</p> <p>CH₄ in N₂ : (>1.0 to 100) mmol/mol $U_r = (0.1 \text{ to } 0.8) \%$</p> <p>CH₄ in N₂ : (100 to 1000) $\mu\text{mol/mol}$ $U_r = (0.8 \text{ to } 1.0) \%$</p> <p>CO in N₂ : (>0.1 to 100) mmol/mol $U_r = (0.2 \text{ to } 1.0) \%$</p> <p>CO in N₂ : (1.0 to 100) $\mu\text{mol/mol}$ $U_r = (1.0 \text{ to } 3.0) \%$</p> <p>CO₂ in N₂ : (>1.0 to 160) mmol/mol $U_r = (0.1 \text{ to } 0.8) \%$</p> <p>CO₂ in N₂ : (100 to 1000) $\mu\text{mol/mol}$ $U_r = (0.2 \text{ to } 1.2) \%$</p>	ISO 6142-1 ISO 6143 ISO 12963	Gravimetric method	LIU, Hsin-Wang FENG, Yun



Category and Subcategory of RMs Produced	RM Types (CRM/RM)	Item/Parameter	Measurement Method /Technique	Approach used to assign Property values	Approval Signatory
A7.1 Gas mixtures	CRM	<p>NO in N₂ : (50 to 2000) $\mu\text{mol/mol}$ $U_r = (0.8 \text{ to } 2.0) \%$</p> <p>O₂ in N₂ : (>10 to 250) mmol/mol $U_r = (0.3 \text{ to } 1.0) \%$</p> <p>O₂ in N₂ : (1.0 to 10) $\mu\text{mol/mol}$ $U_r = (1.5 \text{ to } 3.0) \%$</p> <p>O₂ in N₂ : (1.0 to 10) mmol/mol $U_r = (0.5 \text{ to } 1.5) \%$</p> <p>SF₆ in N₂ : (10 to 1000) $\mu\text{mol/mol}$ $U_r = (0.5 \text{ to } 1.5) \%$</p> <p>SO₂ in N₂ : (50 to 2000) $\mu\text{mol/mol}$ $U_r = (0.5 \text{ to } 1.5) \%$</p>	ISO 6142-1 ISO 6143 ISO 12963	Gravimetric method	LIU, Hsin-Wang FENG, Yun

(Null below)

