



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

Certificate of Accreditation

(Certificate No : R001-240920)

This is to certify that

National Measurement Laboratory, R.O.C.

National Measurement Laboratory, R.O.C.

321, Sec. 2, Kuang Fu Rd., Hsinchu, 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, 2020 to October 27, 2025

Accredited Scope : Gas mixtures, see described in the Appendix



Scan to verify

Yi-Ling Chen

Yi-Ling Chen
President, Taiwan Accreditation Foundation
September 20, 2024

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	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	NO in N ₂ : (50 to 2000) μmol/mol U _r = (0.8 to 2.0) % O ₂ in N ₂ : (>10 to 250) mmol/mol U _r = (0.3 to 1.0) % O ₂ in N ₂ : (1.0 to 10) μmol/mol U _r = (1.5 to 3.0) % O ₂ in N ₂ : (1.0 to 10) mmol/mol U _r = (0.5 to 1.5) % SF ₆ in N ₂ : (10 to 1000) μmol/mol U _r = (0.5 to 1.5) % SO ₂ in N ₂ : (50 to 2000) μmol/mol U _r = (0.5 to 1.5) %	ISO 6142-1 ISO 6143	gravimetric method	LIU, Hsin-Wang FENG, Yun

(Null below)

