



CERTIFICATE OF ACCREDITATION

In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-

AIR LIQUIDE (PTY) LTD
Co. Reg. No.: 1948/029574/07

Facility Accreditation Number: **1505**

is a South African National Accreditation System accredited Calibration laboratory provided that all SANAS conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying schedule of accreditation Annexure "A", bearing the above accreditation number for


GAS METROLOGY

The facility is accredited in accordance with the recognised International Standard

ISO/IEC 17025:2005

The accreditation demonstrates technical competency for a defined scope and the operation of a laboratory quality management system

While this certificate remains valid, the Accredited Facility named above is authorised to use the relevant SANAS accreditation symbol to issue facility reports and/or certificates



Mr R Josias
Chief Executive Officer

Effective Date: 10 April 2018
Certificate Expires: 25 June 2022



ANNEXURE A

SCHEDULE OF ACCREDITATION GAS METROLOGY

Facility Number: 1505

Permanent Address of Laboratory: Air Liquide (Pty) Ltd Cnr Vereeniging Road & Andre Marais Street Alrode 1449		Technical Signatory: Ms RN Makuse	
Postal Address: P O Box 124200 Alrode 1451 Tel: (011) 389-7233 Fax: (011) 617-7576 E-mail: reshoketsoe.makuse@airliquide.com		Nominated Representative: Ms RN Makuse Issue No.: 12 Date of Issue: 10 April 2018 Expiry Date: 25 June 2022	
ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)
1 Analysis of Prepared Gasses			
1.3	Nitric Oxide (NO in N ₂) Chemiluminescence	10 to 5 000 $\mu\text{mol/mol}$	4,5 %
1.4	Nitrogen Dioxide (NO ₂ in N ₂) Chemiluminescence	10 to 5 000 $\mu\text{mol/mol}$	4,7 %
1.5	Hydrogen Sulphide (H ₂ S in N ₂) GC FPD	26 to 500 $\mu\text{mol/mol}$	3,3 %
1.6	Sulphur Dioxide (SO ₂ in N ₂) GC FPD	5 to 500 $\mu\text{mol/mol}$	3,1 %

Original Date of Accreditation: 1997

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The CMC, expressed as an expanded uncertainty of measurement, is stated as the standard uncertainty of measurement multiplied by a coverage factor $k = 2$, corresponding to a confidence level of approximately 95%

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager

