

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 on 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
Acting Chief Executive Officer

Effective Date : 03 May 2010
Certificate Expires : 28 February 2012

ANNEXURE A
SCHEDULE OF ACCREDITATION

GAS METROLOGY

Laboratory Accreditation Number: 1505

<p>Permanent Address of Laboratory: Air Liquide (Pty) Ltd Cnr Vereeniging Road & Andre Marais Street Alrode 1449</p> <p>Postal Address: P O Box 124200 Alrode 1451</p> <p>Tel : (011) 389-7233 Fax : (011) 617-7576 Email : Lawrence.Vilakazi@Airliquide.com</p>	<p>Technical Signatories : Mr L Vilakazi</p> <p>Nominated Representative : Mr L Vilakazi</p> <p>Issue No. : 07 Date of issue : 03 May 2010 Expiry date : 28 February 2012</p>		
ITEM	MEASURED QUANTITY OF TYPE OF GAUGE OR INSTRUMENT	NOMINAL RANGE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)
1	Infrared	0 to 1 % CO 0 to 1 % CO ₂	4,9 % Relative 10 % Relative
2	UV-VIS	0 to 500 ppm (H ₂ S and SO ₂)	3 % Relative
3	GC FPD	0 to 500 ppm (H ₂ S and SO ₂)	2 % Relative
4	Chemi Luminescent	0 to 10 000 ppm (NO/NO ₂)	4,5 % Relative

Original date of accreditation: 1997

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NOTE: ppm = Parts per million

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

Field Manager