ALCOTEST 9510 PARAMETER REPORT

Equipment

Serial No.:	ARMK-0097
Firmware:	8326739 1.5
WinCE application:	8326738 2.9
Configuration:	8326737 3.10
Date:	10/13/2025
Time:	06:54:40

Parameter

min. blow time	5.0	s
min. breath volume for females of age 60+	1.2	L
min. breath volume for all other	1.5	L
min. blow flow	4.5	L/min
plateau detection limit	4	%
plateau detection start conc.	70	microgram/L
neg. flow detection (part. vacuum)	10.0	hPa
neg. flow detection sensitivy	10	
cal. gas abort volume	0.4	L
result-to-zero limit	0.0050	%BAC
ambient air check limit	0.0049	%BAC
interference det. d-criterion limit abs.	38	microgram/L
interference det. d-criterion limit rel.	10.0	%
interference det. t-criterion limit abs.	8	microgram/L
interference det. t-criterion limit rel.	2.1	%
IR CO2 offset	10	microgram/L
IR H2O offset	4	microgram/L
EC H2O offset	0	microgram/L
Value-based EC aging comp. on/off (1/0)	0	
Time-based EC aging comp. on/off (1/0)	1	
Time-based EC aging comp. per month	0.2	%
Time-based EC aging comp. maximum	3.0	%
EC fatigue comp. max. sum	15000	
EC fatigue comp. factor	50	
EC fatigue comp. minutes	180	
mouth alc. mark limit	500	
mouth alc. lower limit	30	
mouth alc. slope	6	
mouth alc. zero limit	50	
mouth alc. max. neg. sum	6	
mouth alc. max. 2nd derivative	35	

ALCOTEST 9510 CERTIFICATION REPORT - WET ADJUST (PART I)
South Brunswick

Equipment

Inst. Model No.:	ALCOTEST 9510	Serial No.:	ARMK-0097		
Firmware:	8326739 1.5	Config.:	8326737 3.10	WinCE:	8326738 2.9

Wet Adjust Record

Wet Adjust File No.:	96	Wet Adjust Date:	10/13/2025	Wet Adjust No.:	6
		Wet Adjust Time:	07:39:39		
Concentration:	0.100 %				
Adjusting Unit:	X-Cal 2000	Adj. Unit Ser. No.:	ARMA-0055	Adj. Unit Exp.:	08/19/2026
Solution Lot No.:	24210	Soln. Bottle No.:	857	Adjust Soln. Exp.:	06/11/2026
Preadjust Simulator Temp.:		34.01 degree C			
Postadjust Simulator Temp.:		34.01 degree C			

Result

Procedure completed successfully.

Coordinator

Last Name: RUBBE - First Name: ANTHONY MI: P Badge No.: 8352

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

TR. A. RUB 8352

Signed: Date: 10/13/2025 ID: 3018

ALCOTEST 9510 CERTIFICATION REPORT - DRY ADJUST (PART II)
South Brunswick

Equipment

Inst. Model No.:	ALCOTEST 9510	Serial No.:	ARMK-0097		
Firmware:	8326739 1.5	Config.:	8326737 3.10	WinCE:	8326738 2.9

Dry Adjust Record

Dry Adjust File No.:	97	Dry Adjust Date:	10/13/2025	Dry Adjust No.:	6
		Dry Adjust Time:	08:03:10		
Concentration:	0.100 %				
Dry Gas Lot No.:	302-402755160	Adjust Gas Exp.:	05/24/2026		
Barom. Model No.:	Mensor CPG2300	Barom. Serial No.:	4100126W	Barom. Cert. Exp.:	09/03/2026
Pre-adjust Amb. Pressure:		1009 hPa	Post-adjust Amb. Pressure:		1009 hPa

Result

Procedure completed successfully.

Coordinator

Last Name: RUBBE - First Name: ANTHONY MI: P Badge No.: 8352

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

Signed: Date: 10/13/2025 ID: 3018

ALCOTEST 9510 CERTIFICATION REPORT - LINEARITY (PART III)
South Brunswick

Equipment

Inst. Model No.:	ALCOTEST 9510	Serial No.:	ARMK-0097		
Firmware:	8326739 1.5	Config.:	8326737 3.10	WinCE:	8326738 2.9

Linearity Record

Linearity File No.:	98	Lin. Date:	10/13/2025	Lin. No.:	6

0.040% Dry Gas Lot No.:	302-402730318	Adjust. Gas Exp.:	04/27/2026
0.080% Dry Gas Lot No.:	302-402732434	Adjust. Gas Exp.:	04/28/2026
0.160% Dry Gas Lot No.:	302-402922401	Adjust. Gas Exp.:	12/14/2026
0.300% Dry Gas Lot No.:	302-402757219	Adjust. Gas Exp.:	05/30/2026

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	08:19:47		*TEST PASSED*
Control .04 Test 1 EC	0.039	08:20:22	1009	*TEST PASSED*
Control .04 Test 1 IR	0.039	08:20:22	1009	*TEST PASSED*
Ambient Air Blank	0.000	08:21:24		*TEST PASSED*
Control .04 Test 2 EC	0.040	08:21:36	1009	*TEST PASSED*
Control .04 Test 2 IR	0.040	08:21:36	1009	*TEST PASSED*
Ambient Air Blank	0.000	08:22:56		*TEST PASSED*
Control .08 Test 3 EC	0.078	08:23:29	1009	*TEST PASSED*
Control .08 Test 3 IR	0.079	08:23:29	1009	*TEST PASSED*
Ambient Air Blank	0.000	08:24:37		*TEST PASSED*
Control .08 Test 4 EC	0.080	08:24:49	1009	*TEST PASSED*
Control .08 Test 4 IR	0.080	08:24:49	1009	*TEST PASSED*
Ambient Air Blank	0.000	08:26:23		*TEST PASSED*
Control .16 Test 5 EC	0.156	08:26:56	1009	*TEST PASSED*
Control .16 Test 5 IR	0.158	08:26:56	1009	*TEST PASSED*
Ambient Air Blank	0.000	08:28:11		*TEST PASSED*
Control .16 Test 6 EC	0.160	08:28:23	1009	*TEST PASSED*
Control .16 Test 6 IR	0.159	08:28:23	1009	*TEST PASSED*
Ambient Air Blank	0.000	08:37:20		*TEST PASSED*
Control .30 Test 7 EC	0.303	08:37:58	1009	*TEST PASSED*
Control .30 Test 7 IR	0.303	08:37:58	1009	*TEST PASSED*
Ambient Air Blank	0.000	08:39:20		*TEST PASSED*
Control .30 Test 8 EC	0.309	08:39:35	1009	*TEST PASSED*
Control .30 Test 8 IR	0.307	08:39:35	1009	*TEST PASSED*
Ambient Air Blank	0.000	08:40:07		*TEST PASSED*

Result

All tests within acceptable tolerance.

Coordinator

Last Name: RUBBE - First Name: ANTHONY MI: P Badge No.: 8352

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

TM A.RM 8352

Signed: Date: 10/13/2025 ID: 3018

ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 1
South Brunswick
SERIAL NUMBER: ARMK-0097

Equipment

Inst. Model No.:	ALCOTEST 9510	Serial No.:	ARMK-0097		
Firmware:	8326739 1.5	Config.:	8326737 3.10	WinCE:	8326738 2.9
Cyl1 Install File No.:	52	Cyl1 Install Date:	02/12/2025	Cyl1 Install No.:	2

Control Tests (0.100%)

Installation Inlet:	#1 (Upper)	Post test active Cyl.:	#2 (Lower)
Dry Gas Lot No.:	302-403034219	Dry Gas Lot Exp.:	05/01/2027

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	09:33:37		*TEST PASSED*
Control Test 1			1021	*TEST PASSED*
EC Result	0.097	09:34:23		*TEST PASSED*
IR Result	0.100	09:34:23		*TEST PASSED*
Ambient Air Blank	0.000	09:35:40		*TEST PASSED*
Control Test 2			1021	*TEST PASSED*
EC Result	0.100	09:36:04		*TEST PASSED*
IR Result	0.101	09:36:04		*TEST PASSED*
Ambient Air Blank	0.000	09:37:22		*TEST PASSED*
Control Test 3			1021	*TEST PASSED*
EC Result	0.101	09:37:46		*TEST PASSED*
IR Result	0.101	09:37:46		*TEST PASSED*
Ambient Air Blank	0.000	09:38:25		*TEST PASSED*

Result

All tests within acceptable tolerance.

Coordinator

Last Name: Waldrop - First Name: Robert MI: W Badge No.: 8256

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

Signed: Date: 02/12/2025 ID: 52

ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 2
South Brunswick
SERIAL NUMBER: ARMK-0097

Equipment

Inst. Model No.:	ALCOTEST 9510	Serial No.:	ARMK-0097		
Firmware:	8326739 1.5	Config.:	8326737 3.10	WinCE:	8326738 2.9
Cyl2 Install File No.:	99	Cyl2 Install Date:	10/13/2025	Cyl2 Install No.:	2

Control Tests (0.100%)

Installation Inlet:	#2 (Lower)	Post test active Cyl.:	#1 (Upper)
Dry Gas Lot No.:	302-403376678	Dry Gas Lot Exp.:	06/20/2028

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	08:51:25		*TEST PASSED*
Control Test 1			1009	*TEST PASSED*
EC Result	0.099	08:52:11		*TEST PASSED*
IR Result	0.101	08:52:11		*TEST PASSED*
Ambient Air Blank	0.000	08:53:24		*TEST PASSED*
Control Test 2			1009	*TEST PASSED*
EC Result	0.101	08:53:48		*TEST PASSED*
IR Result	0.102	08:53:48		*TEST PASSED*
Ambient Air Blank	0.000	08:55:01		*TEST PASSED*
Control Test 3			1009	*TEST PASSED*
EC Result	0.102	08:55:25		*TEST PASSED*
IR Result	0.102	08:55:25		*TEST PASSED*
Ambient Air Blank	0.000	08:55:58		*TEST PASSED*

Result

All tests within acceptable tolerance.

Coordinator

Last Name: RUBBE - First Name: ANTHONY MI: P Badge No.: 8352

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

TAR. A. RM 8352

Signed: Date: 10/13/2025 ID: 3018

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Part Number: 4401036
DRAEGER MEDICAL SYSTEMS INC

Sales order: 1130435101
Date: May 28, 2024

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-403034219
ETHANOL IN NITROGEN

Manufactured Date: May 01, 2024
Product Expiration: May 01, 2027

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	

AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	263.0	(0.101)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38424	260.7

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY
Preparation:
Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.
Traceable certificate numbers 3445312 and 3398673.

Analytical:
Analytical Instruments Calibrated Using NMI Traceable Standards.
Certification Numbers: A679-20190918, D049803-20220329

No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).
CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

APPROVED BY: Steven Platchek

"We certify that all the cylinders for the Lot numbers identified herin are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC
821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410) 228-6400 Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS
EBS - ETHANOL BREATH STANDARD

Part Number: 4401036
DRAEGER MEDICAL SYSTEMS INC

Sales order: 1141350717
Date: July 25, 2025

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-403376678
ETHANOL IN NITROGEN

Manufactured Date: June 20, 2025
Product Expiration: June 20, 2028

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	

AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	262.6	(0.101)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND49826	260.1

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY
Preparation:
Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.
Traceable certificate numbers 3445312 and 3398673.

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Analytical Instruments Calibrated Using NMI Traceable Standards.
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No effecting environmental conditions during analysis.

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APPROVED BY: Steven Plentzeh

"We certify that all the cylinders for the Lot numbers identified herin are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

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821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410) 228-6400 Fax: (410) 228-4251

Dräger

Alcotest 9510

CERTIFICATE OF ACCURACY

This is to certify that the Alcotest 9510 has been tested for accuracy and found to be in compliance with the National Highway Traffic Safety Administration Standard for evidential breath testing devices. The Alcotest MKIII-C is compliant as a "mobile" and "nonmobile" EBT with 49 FR 48854, 49 FR 48864, and 58 FR 48705. The manufacturer recommends accuracy verification of this instrument within 12 months of the calibration date below, or sooner, according to your state's specifications.

Certification Date: 11/28/2023

Serial Number: ARMK-0097

Draeger, Inc. JP MB

State of New Jersey

OFFICE OF THE ATTORNEY GENERAL
DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF STATE POLICE
POST OFFICE BOX 7068
WEST TRENTON, NJ 08628-0068
(609) 882-2000

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

MATTHEW J. PLATKIN
Attorney General

COLONEL PATRICK J. CALLAHAN
Superintendent

CERTIFICATION OF ANALYSIS
0.100 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.1174 to 0.1246 grams per 100 milliliters of solution.

MANUFACTURER: Draeger, Inc. **ANALYSIS DATE:** 07/18/2024

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 24210

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1195 to 0.1217 grams per 100 milliliters of solution.

This lot of breath alcohol simulator solution may be utilized as a known traceable standard for the purpose of conducting periodic tests, pursuant to N.J.A.C. 13:51-4.3, of approved breath test instruments (N.J.A.C. 13:51-3.5) utilized by law enforcement agencies in this State. The manufacturer's expiration date for this lot of breath alcohol simulator solution is June 11, 2026.

As OFS Director for the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at the Office of Forensic Sciences of the Division of State Police on properly functioning and calibrated instruments and equipment. All procedures utilized are accurate, objective, and performed on a routine basis by personnel within the Office of Forensic Sciences, in accordance with their professional duties and responsibilities.

Michael Kennedy
Director
NJSP Office of Forensic Sciences

Sworn to and subscribed before me this 24 day of July, 2024.

Notary

KAREN E. STAHL
NOTARY PUBLIC OF NEW JERSEY
Commission # 50110522
My Commission Expires 6/13/2024

KAREN E. STAHL
NOTARY PUBLIC OF NEW JERSEY
Commission # 50110522

KAREN E. STAHL
NOTARY PUBLIC OF NEW JERSEY
Commission # 50110522

CALIBRATED BY TRANSCAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: SUC4303700862

ANAB ANSI National Accreditation Board ACCREDITED CALIBRATION LABORATORY
ANAB AC-2489.02

Certificate/SO Number: 5-F8B2G-400-1 Revision 0

Manufacturer: Drager Safety AG & Co. KGaA
Model Number: X-Cal 2000
Description: Breath Alcohol Simulator
Serial Number: ARMA-0055
ID: NONE

As-Found: In Tolerance
As-Left: In Tolerance

Issue Date: Aug 19, 2025
Calibration Date: Aug 19, 2025
Due Date: Aug 19, 2026

Calibrated To: Manufacturer Specification
Calibration Procedure: 1-AC103519-2

Transcat Calibration Laboratories have been audited and found in compliance with ISO /IEC 17025:2017. Accredited calibrations performed within the Lab Scope of Accreditation are indicated by the presence of the Accrediting Body Logo and Certificate Number. Any measurements on an accredited calibration not covered by the Lab Scope of Accreditation are listed in the notes section of the certificate . SCC, NRC, CLAS or ANAB do not guarantee the accuracy of an individual calibration by accredited laboratories.

Transcat calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual QAC-P01-000, the customer Purchase Order and/or Quality Agreement requirements, ISO 9001:2015, ANSI/NCSL Z540.1-1994 (R2002), and ISO 10012:2003, as applicable. When specified contractually, the requirements of ISO TS16949:2009, 10CFR21, 10CFR50 App. B, ASME NQA-1:2012, and ANSI/NCSL Z540.3-2006 (R2013) are also covered.

Complete records of work performed are maintained by Transcat and are available for inspection . Laboratory standards used in the performance of this calibration are listed on this certificate.

Transcat documents the traceability of measurements to the SI units through the National Institute of Standards and Technology (NIST), or the National Research Council of Canada (NRC), or other national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Arrangement , or accepted fundamental and/or natural physical constants, or by the use of specified methods, consensus standards or ratio type measurements. Documentation supporting traceability information is available for review upon written request at a Transcat facility . The measured quantity and the measurement uncertainty are required for further dissemination of traceability.

Uncertainties are reported with a coverage factor k=2, providing a level of confidence of approximately 95%. All calibrations have been performed using processes having a TUR of 4:1 or better (3:1 for mass calibrations), unless otherwise noted. The Test Uncertainty Ratio (TUR) is calculated in accordance with NCSL International RP-18. For mass calibrations: Conventional mass referenced to 8.0 g/cm³.

The results in this report relate only to the item calibrated or tested. Recorded calibration data is valid at the time of calibration within the stated uncertainties at the environmental conditions noted. The determination of compliance to the specification is specific to the model/serial no./ID no. referenced above based on the tolerances shown; these tolerances are either the original equipment manufacturers (OEM's) warranted specifications or the client's requested specifications. Any number of factors can cause a unit to drift out of tolerance at any time following its calibration. Limitations on the uses of this instrument are detailed in the OEM's operating instructions . This certificate may not be reproduced except in full, without the written approval of Transcat . Additional information, if applicable may be included on separate report(s).

CALIBRATED BY TRANSCAT — CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: SUC4303700862

ANAB ACCREDITED CALIBRATION LABORATORY
ANAB AC-2460.02

Certificate/SO Number: 5-F8B2G-400-1 Revision 0

As Found/As Left Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Function Checks										
Bubble Check			P	P	P					
Seal Check			P	P	P					
Temperature Source: Accuracy Test										
Accuracy Test	34.00°C	±(0.02 °C)	33.98	34.02	34.00 °C		1.5e-002	1.6e-002	°C	1.3 : 1
Temperature Source: Stability Test										
Stability Test	0.00°C	±(0.02 °C)	-0.02	0.02	0.00 °C		1.5e-002	1.6e-002	°C	1.3 : 1

Field not applicable.

Traceable Standards

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
05H1479	AccuMac Corporation	AM1760-12-S	Secondary SPRT	12-Aug-24	31-Aug-25	H32XM-4-1	AF/AL
HP927312	Hart Scientific/Fluke	1575	Super Thermometer	10-Jul-24	31-Jan-26	5-&HP927312-9-1	AF/AL

The use of the standard is defined as: AF - used for as-found readings, AL - used for as-left readings.

Environmental Data

Temperature	Relative Humidity	Temp / RH Asset	Lab Area	Lab Description
68.94°F /20.52°C	55.90%	DewK11	G	Temperature

Decision Rule

When compliance statements are present, they are reported without factoring in the effects of uncertainty and comply with the guidelines as follows : The acceptance zone is defined as: less than or equal to the high limit, and/or greater than or equal to the low limit. The rejection zones are defined as greater than the high limit and/or less than the low limit. Single measurement results in the acceptance zone

CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: SUC4303700862

ANAB ACCREDITED CALIBRATION LABORATORY
ANAB AC-2469.02

Certificate/SO Number: 5-F8B2G-400-1 Revision 0

are identified as in-tolerance. Single measurement results in the rejection zone are identified as out-of-tolerance (OOT). When all measurement results are in the acceptance zone for repeated measurements, for the same characteristic, the test is identified as in-tolerance. For repeated characteristic measurements, a single measurement result in the rejection zone, will cause the test to be identified as out-of-tolerance (OOT). Data rejection for cause, (outliers) is permitted after the " Determining and Verifying Out Of Tolerance (OOT) and/or Op Fail Readings" procedure outlined in this document has been completed and the anomalous reading cannot be repeated, and the anomalous reading does not represent the system under test. Statements of conformity are binary.

CALIBRATED BY TRANSCAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: SUC4303700862

ANAB
ANSI National Accreditation Board
ACCREDITED
CALIBRATION LABORATORY
ANAB AC-2469.02

ilac-MRA

Certificate/SO Number: 5-F8B2G-400-1 Revision 0

Legend

Topic	Description
Accuracy	UUT specification that establishes expected tolerances and a time limit (calibration interval) over which the instrument is expected to hold these tolerances
As Found	Initial measurement results
As Left	Measurement results after adjustment and/or repair
Blank Data Field	Test is not applicable for the UUT
Cal Process Uncertainty (CPU)	The uncertainty of calibration process for the reported measurement result
Calibration Date	Indicates the date that the calibration was completed
Cover Factor (k)	A measure of uncertainty that defines an interval about the measurement result
Due Date	Indicates the end of the calibration cycle as requested by the customer
Issue Date	Indicates the date that the calibration has passed the Data Review Process and was signed by an authorized signatory or the date that a revision to the original certificate has been issued
Low / High Limits	Establishes UUT acceptable performance limits for the test measurement
Measurement Uncertainty	The dispersion of the values attributed to a measured quantity
OOA	Out of Acceptance (#)
OOT	Out of Tolerance (*)
Setpoints	Measurement target values
Traceability	Unbroken chain of comparisons relating an instrument's measurements to a known standard(s)
Traceability Number	Unique identifier(s) used to document traceability of calibration standards
TUR	Test Uncertainty Ratio, ratio of the tolerance or specification of the test measurement in relation to the uncertainty in measurement results
UUT	Unit Under test

CALIBRATED BY TRANSCAT — CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: SUC4303700862

ANAB ANSI National Accreditation Board ACCREDITED CALIBRATION LABORATORY
ANAB AC-2489.02

ilac-MRA

Certificate/SO Number: 5-F8B2G-400-1 Revision 0

Calibrated At:
16115 Park Row
Houston, TX 77084

Facility Responsible:
16115 Park Row
Houston, TX 77084
800-828-1470

Calibrated By:
Electronically Signed By:
Jose Martinez

Jose Martinez	Aug 19, 2025
Calibration Technician	09:05:04 -04:00

Reviewed By:
Electronically Signed By:
Graham Walker for

Josh Solleau	Aug 19, 2025
Lab Manager	14:15:35 -04:00

Unit Barcode: 09008541800

Date Received: August 08, 2025
Service Level: R0

Customer Number: 1-659111-000

CALIBRATED BY TRANSCAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: SUC4303700862

ANAB
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ACCREDITED
CALIBRATION LABORATORY
ANAB AC-2489.02

ilac-MRA

Certificate/SO Number: 5-F8B2G-160-1 Revision 0

Manufacturer: Wika Instr/Mensor Corp/Trend
Model Number: CPG2300
Description: Portable Barometer
Serial Number: 4100126W
ID: NONE

As-Found: Out Of Tolerance
As-Left: In Tolerance

Issue Date: Sep 03, 2025
Calibration Date: Sep 03, 2025
Due Date: Sep 03, 2026

Calibrated To: Manufacturer Specification
Calibration Procedure: 1-AC107288-0

Transcat Calibration Laboratories have been audited and found in compliance with ISO/IEC 17025:2017. Accredited calibrations performed within the Lab Scope of Accreditation are indicated by the presence of the Accrediting Body Logo and Certificate Number. Any measurements on an accredited calibration not covered by the Lab Scope of Accreditation are listed in the notes section of the certificate . SCC, NRC, CLAS or ANAB do not guarantee the accuracy of an individual calibration by accredited laboratories.

Transcat calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual QAC-P01-000, the customer Purchase Order and/or Quality Agreement requirements, ISO 9001:2015, ANSI/NCSL Z540.1-1994 (R2002), and ISO 10012:2003, as applicable. When specified contractually, the requirements of ISO TS 10949:2009, 10CFR21, 10CFR50 App. B, ASME NQA-1:2012, and ANSI/NCSL Z540.3-2006 (R2013) are also covered.

Complete records of work performed are maintained by Transcat and are available for inspection . Laboratory standards used in the performance of this calibration are listed on this certificate.

Transcat documents the traceability of measurements to the SI units through the National Institute of Standards and Technology (NIST), or the National Research Council of Canada (NRC), or other national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Arrangement , or accepted fundamental and/or natural physical constants, or by the use of specified methods, consensus standards or ratio type measurements. Documentation supporting traceability information is available for review upon written request at a Transcat facility . The measured quantity and the measurement uncertainty are required for further dissemination of traceability.

Uncertainties are reported with a coverage factor k=2, providing a level of confidence of approximately 95%. All calibrations have been performed using processes having a TUR of 4:1 or better (3:1 for mass calibrations), unless otherwise noted. The Test Uncertainty Ratio (TUR) is calculated in accordance with NCSL International RP-18. For mass calibrations: Conventional mass referenced to 8.0 g/cm³.

The results in this report relate only to the item calibrated or tested. Recorded calibration data is valid at the time of calibration within the stated uncertainties at the environmental conditions noted. The determination of compliance to the specification is specific to the model/serial no./ID no. referenced above based on the tolerances shown; these tolerances are either the original equipment manufacturers (OEM's) warranted specifications or the client's requested specifications. Any number of factors can cause a unit to drift out of tolerance at any time following its calibration. Limitations on the uses of this instrument are detailed in the OEM's operating instructions . This certificate may not be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

Notes:

Unit received out of tolerance. Adjustments were made to meet customer specs. The OOT readings were verified.

Date Received: August 08, 2025
Service Level : R9

CALIBRATED BY TRANSCAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: SUC4303700862

ANAB ANSI National Accreditation Board ACCREDITED CALIBRATION LABORATORY
ANAB AC-2489.02

Certificate/SO Number: 5-F8B2G-160-1 Revision 0

As Found Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found	OOT	Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Pressure Measure: 552 to1172 mbara Range										
	550.10mbara	±(0.015% FS)	549.92	550.28	549.70 mbara	*	1.0e-002	1.2e-002	mbara	17.2 : 1
	610.03mbara	±(0.015% FS)	609.85	610.21	609.60 mbara	*	1.2e-002	1.3e-002	mbara	15.5 : 1
	680.39mbara	±(0.015% FS)	680.21	680.57	680.00 mbara	*	1.3e-002	1.4e-002	mbara	13.9 : 1
	734.30mbara	±(0.015% FS)	734.12	734.48	733.90 mbara	*	1.4e-002	1.5e-002	mbara	12.9 : 1
	804.66mbara	±(0.015% FS)	804.48	804.84	804.20 mbara	*	1.5e-002	1.6e-002	mbara	11.8 : 1
	864.93mbara	±(0.015% FS)	864.75	865.11	864.50 mbara	*	1.6e-002	1.7e-002	mbara	11.0 : 1
	924.93mbara	±(0.015% FS)	924.75	925.11	924.50 mbara	*	1.8e-002	1.8e-002	mbara	10.2 : 1
	985.23mbara	±(0.015% FS)	985.05	985.41	984.80 mbara	*	1.9e-002	2.0e-002	mbara	9.6 : 1
	1043.9mbara	±(0.015% FS)	1043.7	1044.1	1043.4 mbara	*	2.0e-002	6.1e-002	mbara	10.1 : 1
	1114.2mbara	±(0.015% FS)	1114.0	1114.4	1113.8 mbara	*	2.1e-002	6.1e-002	mbara	9.4 : 1
	1174.6mbara	±(0.015% FS)	1174.4	1174.8	1174.1 mbara	*	2.2e-002	6.2e-002	mbara	9.0 : 1
	924.93mbara	±(0.015% FS)	924.75	925.11	924.50 mbara	*	1.8e-002	1.8e-002	mbara	10.2 : 1
	864.93mbara	±(0.015% FS)	864.75	865.11	864.50 mbara	*	1.6e-002	1.7e-002	mbara	11.0 : 1
	804.65mbara	±(0.015% FS)	804.47	804.83	804.20 mbara	*	1.5e-002	1.6e-002	mbara	11.8 : 1

CALIBRATED BY TRANSCAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: SUC4303700862

ANAB ANSI National Accreditation Board ACCREDITED CALIBRATION LABORATORY
ANAB AC-2469.02

Certificate/SO Number: 5-F8B2G-160-1 Revision 0

As Left Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Left	OOT	Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Pressure Measure: 552 to1172 mbara Range										
	550.08mbara	±(0.015% FS)	549.90	550.26	550.00 mbara		1.0e-002	1.2e-002	mbara	17.2 : 1
	610.02mbara	±(0.015% FS)	609.84	610.20	609.90 mbara		1.2e-002	1.3e-002	mbara	15.5 : 1
	680.39mbara	±(0.015% FS)	680.20	680.56	680.30 mbara		1.3e-002	1.4e-002	mbara	13.9 : 1
	734.28mbara	±(0.015% FS)	734.10	734.46	734.20 mbara		1.4e-002	1.5e-002	mbara	12.9 : 1
	804.64mbara	±(0.015% FS)	804.46	804.82	804.60 mbara		1.5e-002	1.6e-002	mbara	11.8 : 1
	864.92mbara	±(0.015% FS)	864.74	865.10	864.90 mbara		1.6e-002	1.7e-002	mbara	11.0 : 1
	924.92mbara	±(0.015% FS)	924.74	925.10	924.90 mbara		1.8e-002	1.8e-002	mbara	10.2 : 1
	985.22mbara	±(0.015% FS)	985.04	985.40	985.30 mbara		1.9e-002	2.0e-002	mbara	9.6 : 1
	1043.8mbara	±(0.015% FS)	1043.6	1044.0	1043.9 mbara		2.0e-002	6.1e-002	mbara	10.1 : 1
	1114.2mbara	±(0.015% FS)	1114.0	1114.4	1114.3 mbara		2.1e-002	6.1e-002	mbara	9.4 : 1
	1174.8mbara	±(0.015% FS)	1174.4	1174.8	1174.6 mbara		2.2e-002	6.2e-002	mbara	9.0 : 1
	924.92mbara	±(0.015% FS)	924.74	925.10	924.90 mbara		1.8e-002	1.8e-002	mbara	10.2 : 1
	864.92mbara	±(0.015% FS)	864.74	865.10	864.90 mbara		1.6e-002	1.7e-002	mbara	11.0 : 1
	804.64mbara	±(0.015% FS)	804.46	804.82	804.60 mbara		1.5e-002	1.6e-002	mbara	11.8 : 1

Field not applicable.

Traceable Standards

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
DW11BA	Fluke/DH Instruments	PG7601	Piston Gauge	31-Jul-25	31-Jul-26	5-&DW11BA-20-1	AF/AL
DW11CA	Fluke/DH Instruments	MS-AMH-38	AMH Mass Set	6-Jun-25	30-Sep-25	5-&DW11CA-40-1	AF/AL
DW11LOW	Fluke/DH Instruments	PC-7100/7600-10-TC	Gas Piston-Cylinder Module	8-Apr-22	30-Apr-27	5-&DW11LOW-3-1	AF/AL
DW11MASS	Fluke/DH Instruments	MS-AMH-38	AMH Mass Set	5-Mar-25	31-Mar-26	5-&DW11MASS-12-1	AF/AL

The use of the standard is defined as: AF - used for as-found readings, AL - used for as-left readings.

CALIBRATED BY TRANSCAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: SUC4303700862

ANSI National Accreditation Board ACCREDITED CALIBRATION LABORATORY
ANAB AC-2469.02

Certificate/SO Number: 5-F8B2G-160-1 Revision 0

Environmental Data

Temperature	Relative Humidity	Temp / RH Asset	Lab Area	Lab Description
72.72°F /22.62°C	44.00%	DewK9	B	GP Pressure

Decision Rule

When compliance statements are present, they are reported without factoring in the effects of uncertainty and comply with the guidelines as follows : The acceptance zone is defined as: less than or equal to the high limit, and/or greater than or equal to the low limit. The rejection zones are defined as greater than the high limit and/or less than the low limit. Single measurement results in the acceptance zone are identified as in-tolerance. Single measurement results in the rejection zone are identified as out-of-tolerance (OOT). When all measurement results are in the acceptance zone for repeated measurements, for the same characteristic, the test is identified as in-tolerance. For repeated characteristic measurements, a single measurement result in the rejection zone, will cause the test to be identified as out-of-tolerance (OOT). Data rejection for cause, (outliers) is permitted after the " Determining and Verifying Out Of Tolerance (OOT) and/or Op Fail Readings" procedure outlined in this document has been completed and the anomalous reading cannot be repeated, and the anomalous reading does not represent the system under test. Statements of conformity are binary.

CALIBRATED BY TRANSCAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: SUC4303700862

ANAB ANSI National Accreditation Board ACCREDITED CALIBRATION LABORATORY
ANAB AC-2469.02

ilac-MRA

Certificate/SO Number: 5-F8B2G-160-1 Revision 0

Legend

Topic	Description
Accuracy	UUT specification that establishes expected tolerances and a time limit (calibration interval) over which the instrument is expected to hold these tolerances
As Found	Initial measurement results
As Left	Measurement results after adjustment and/or repair
Blank Data Field	Test is not applicable for the UUT
Cal Process Uncertainty (CPU)	The uncertainty of calibration process for the reported measurement result
Calibration Date	Indicates the date that the calibration was completed
Cover Factor (k)	A measure of uncertainty that defines an interval about the measurement result
Due Date	Indicates the end of the calibration cycle as requested by the customer
Issue Date	Indicates the date that the calibration has passed the Data Review Process and was signed by an authorized signatory or the date that a revision to the original certificate has been issued
Low / High Limits	Establishes UUT acceptable performance limits for the test measurement
Measurement Uncertainty	The dispersion of the values attributed to a measured quantity
OOA	Out of Acceptance (#)
OOT	Out of Tolerance (*)
Setpoints	Measurement target values
Traceability	Unbroken chain of comparisons relating an instrument's measurements to a known standard(s)
Traceability Number	Unique identifier(s) used to document traceability of calibration standards
TUR	Test Uncertainty Ratio, ratio of the tolerance or specification of the test measurement in relation to the uncertainty in measurement results
UUT	Unit Under test

CALIBRATED BY TRANSCAT CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: SUC4303700862

ANAB ANSI National Accreditation Board ACCREDITED CALIBRATION LABORATORY
ilac-MRA
ANAB AC-2469.02

Certificate/SO Number: 5-F8B2G-160-1 Revision 0

Calibrated At:
16115 Park Row
Houston, TX 77084

Facility Responsible:
16115 Park Row
Houston, TX 77084
800-828-1470

Calibrated By:
Electronically Signed By:
Alex Spilker

Alex Spilker	Sep 03, 2025
Calibration Technician	01:30:26 -04:00

Reviewed By:
Electronically Signed By:
Graham Walker for

Josh Solleau	Sep 03, 2025
Lab Manager	05:53:22 -04:00

Unit Barcode: 09000541825

Date Received: August 08, 2025
Service Level: R9

Customer Number: 1-659111-000

CERTIFICATE OF ANALYSIS
EBS - ETHANOL BREATH STANDARD

DEPT OF LAW AND PUBLIC SAETY

Sales order: 1120654933
Date: May 30, 2023

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402755160
ETHANOL IN NITROGEN

Product Expiration: May 24, 2026

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	

AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	261.6	(0.100)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38424	260.7

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS.

TRACEABILITY
Preparation:
Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.
Traceable certificate numbers 3445312 and 3398673.

Analytical:
Analytical Instruments Calibrated Using NMI Traceable Standards.
Certification Numbers: A679-20190918, D049803-20220329

No effecting environmental conditions during analysis.

***NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).**
CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: May 24, 2023

APPROVED BY:

"We certify that all the cylinders for the Lot numbers identified herin are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC
821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410) 228-6400 Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

DEPT OF LAW AND PUBLIC SAFETY

Sales order: 1120656707
Date: May 30, 2023

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater:
CALGAZ LOT#: 302-402730318
ETHANOL IN NITROGEN

Product Expiration: April 27, 2026

COMPONENT	PPM	(BrAC)
ETHANOL	104.2PPM	(0.040)
NITROGEN	BAL	

AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	107.8	(0.041)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38424	260.7

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY
Preparation:
Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.
Traceable certificate numbers 3445312 and 3398673.

Analytical:
Analytical Instruments Calibrated Using NMI Traceable Standards.
Certification Numbers: A679-20190918, D049803-20220329

No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).
CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: April 27, 2023

APPROVED BY:

We certify that all the cylinders for the Lot numbers identified herin are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request.

CALGAZ, a division of Airgas USA LLC
821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410) 228-6400 Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS
EBS - ETHANOL BREATH STANDARD

DEPT OF LAW AND PUBLIC SAFETY

Sales order: 1120656618
Date: May 25, 2023

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402732434
ETHANOL IN NITROGEN

Product Expiration: April 28, 2026

COMPONENT	PPM	(BrAC)
ETHANOL	208.4PPM	(0.080)
NITROGEN	BAL	

AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	210.4	(0.081)

REFERENCE STANDARD	*CYLINDER*	*CONCENTRATION PPM*
N.M.I. TRACEABLE STANDARDS*	ND38424	260.7

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY
Preparation:
Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.
Traceable certificate numbers 3445312 and 3398673.

Analytical:
Analytical Instruments Calibrated Using NMI Traceable Standards.
Certification Numbers: A679-20190918, D049803-20220329

No effecting environmental conditions during analysis.

***NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).**
CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: April 28, 2023

APPROVED BY:

"We certify that all the cylinders for the Lot numbers identified herin are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC
821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410) 228-6400 Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS
EBS - ETHANOL BREATH STANDARD

Part Number: 4401040NJ
DRAEGER MEDICAL SYSTEMS INC

Sales order: 1126209454
Date: December 18, 2023

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402922401
ETHANOL IN NITROGEN

Product Expiration: December 14, 2026

COMPONENT	PPM	(BrAC)
ETHANOL	416.8PPM	(0.160)
NITROGEN	BAL	

AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	418.6	(0.161)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38424	260.7

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY
Preparation:
Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.
Traceable certificate numbers 3445312 and 3398673.

Analytical:
Analytical Instruments Calibrated Using NMI Traceable Standards.
Certification Numbers: A679-20190918, D049803-20220329

No effecting environmental conditions during analysis.

***NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).**
CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: December 14, 2023

APPROVED BY: _____

"We certify that all the cylinders for the Lot numbers identified herin are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC
821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410) 228-6400 Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS
EBS - ETHANOL BREATH STANDARD

Sales order: 120656632
DEPT OF LAW AND PUBLIC SAFETY Date: May 31, 2023

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402757219
ETHANOL IN NITROGEN Product Expiration: May 30, 2026

COMPONENT	PPM	(BrAC)
ETHANOL	781.5PPM	(0.300)
NITROGEN	BAL	

AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	785.4	(0.301)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38424	260.7

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

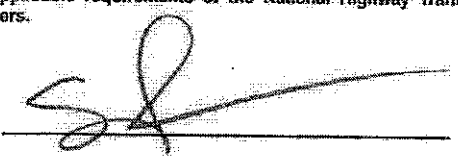
TRACEABILITY
Preparation:
Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.
Traceable certificate numbers 3445312 and 3398673.

Analytical:
Analytical Instruments Calibrated Using NMI Traceable Standards.
Certification Numbers: A679-20190918, D049803-20220329

No effecting environmental conditions during analysis.

***NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).**
CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: May 30, 2023

APPROVED BY: 

"We certify that all the cylinders for the Lot numbers identified herin are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC
821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410) 228-6400 Fax: (410) 228-4251

DEPARTMENT OF
Law and Public Safety

This is to certify that

Anthony P. Rubbe

Breath Test Coordinator/Instructor

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSIS PURSUANT TO CHAPTER 142 OF THE LAWS OF 1966 IN THE OPERATION OF THE Alcotest 9510 A METHOD TO DETERMINE INTOXICATION.

GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 22nd DAY OF January TWO THOUSAND AND Twenty Five

COLONEL
NEW JERSEY STATE POLICE

ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES

	DATE	Refresher Course PLACE	INSTRUCTOR
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			

S.P. 2933 (Rev. 01/18)

DEPARTMENT OF
Law and Public Safety

This is to certify that

Anthony P. Rubbe

New Jersey State Police

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSIS PURSUANT TO CHAPTER 142 OF THE LAWS OF 1966 IN THE OPERATION OF THE Alcotest 9510 A METHOD TO DETERMINE INTOXICATION.

GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 12th DAY OF October TWO THOUSAND AND Twenty Three

COLONEL
NEW JERSEY STATE POLICE

ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES

	DATE	Refresher Course PLACE	INSTRUCTOR
1.	3-27-25	MCTA	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			

S.P. 2933 (Rev. 10/22)

DEPARTMENT OF

Law and Public Safety

This is to certify that

Nicholas E. Mimikos

New Jersey State Police

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSES PURSUANT TO CHAPTER 142 OF THE LAWS OF 1966 IN THE OPERATION OF THE Alcotest 9510 A METHOD TO DETERMINE INTOXICATION.

GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 8th DAY OF June TWO THOUSAND AND Twenty One

COLONEL
NEW JERSEY STATE POLICE

ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES _____

	DATE	Refresher Course PLACE	INSTRUCTOR
1.	7-14-23	Hamilton Tech	MF
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			

S.P. 293B (Rev. 01/18)

DEPARTMENT OF

Law and Public Safety

This is to certify that

Nicholas E. Mimikos

Breath Test Coordinator/Instructor

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSES PURSUANT TO CHAPTER 142 OF THE LAWS OF 1966 IN THE OPERATION OF THE Alcotest 9510 A METHOD TO DETERMINE INTOXICATION.

GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 8th DAY OF June TWO THOUSAND AND Twenty One

COLONEL
NEW JERSEY STATE POLICE

ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES _____

	DATE	Refresher Course PLACE	INSTRUCTOR
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			

S.P. 293B (Rev. 01/18)

DEPARTMENT OF
Law and Public Safety
This is to certify that

Robert W. Waldrop

Breath Test Coordinator/Instructor

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSES PURSUANT TO CHAPTER 142 OF THE LAWS OF 1966 IN THE OPERATION OF THE Alcotest 9510
A METHOD TO DETERMINE INTOXICATION.
GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 25th DAY OF March
TWO THOUSAND AND Twenty Four

COLONEL
NEW JERSEY STATE POLICE

ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES _____

	DATE	Refresher Course PLACE	INSTRUCTOR
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			

S.P. 2938 (Rev. 10/22)

DEPARTMENT OF
Law and Public Safety
This is to certify that

Robert W. Waldrop

New Jersey State Police

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSES PURSUANT TO CHAPTER 142 OF THE LAWS OF 1966 IN THE OPERATION OF THE Alcotest 9510
A METHOD TO DETERMINE INTOXICATION.
GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 28th DAY OF April
TWO THOUSAND AND Twenty Three

COLONEL
NEW JERSEY STATE POLICE

ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES _____

	DATE	Refresher Course PLACE	INSTRUCTOR
1.			
2.			
3.			
4.			
5.			
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7.			
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S.P. 2938 (Rev. 10/22)