



The Source for Calibration Professionals



CERTIFICATE OF CALIBRATION

Issued By :
Isotech North America, Inc
158 Brentwood Drive
Unit #4
Colchester VT 05446

Certificate Number AC-27561
Date of Issue: 5/13/2022

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Approved Signatory

P: 802 863 8050
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D. Bartlett G. Viens S. Sabourin

Customer : EDACI
Cnel Lynch 2684, San Justo
Provincia de Buenos Aires, Argentina
B1754CRR

Instrument : System ID : ID04745
Description : ITS-90 (-80 to 450C)
Manufacturer : Isotech
Model Number : 935-14-116
Serial Number : 20AS18-1

Calibration Info:
Date Received : 4/25/2022
Job Number : J12595-1
Order Number : S535123
Procedure Number : 1154
Procedure Version : 22-1.0/N

Environmental Conditions
Temperature : 20°C ± 1°C
Relative Humidity : 35%RH ± 10%RH
Mains Voltage : 120V ± 10V
Mains Frequency : 60Hz ± 1Hz

Comments
This certificate is issued in compliance with ISO/IEC 17025:2017 and our ANAB accredited quality system. Reported measurement uncertainties are stated with a coverage factor $k=2$, corresponding to a coverage probability of 95%. This platinum resistance thermometer was calibrated using ITS90 Fixed Points

Traceability Information

Instrument Description	Serial Number	Certificate Number	Cal. Date	Period [Weeks]
670 SPRT	670-011	AC-26892	8/27/2021	52
A11-50-270 TPW (Triple Point of Water)	A11-50-1803	19-06-26	6/6/2019	999
491 SN Fixed Point Cell	29624-1	19-04-84	4/23/2019	999
492 ZN Fixed Point Cell	29624-2	19-04-85	4/23/2019	999
17724-M HG Fixed Point Cell	HG213	10-10-33	10/19/2010	999
microK 500 Precision Thermometry Bridge	381822/35	AC-27518	4/29/2022	52

Calibrated By : Don Bartlett

Date of Calibration : 5/13/2022

This certificate provides traceability of measurement to recognized National standards, through units of measurement realized at the National Physical Laboratory (NPL), National Institute of Standards & Technology (NIST) or other recognized National standards laboratories to the International System of Units. Copyright of this certificate is owned by the issuing laboratory and may not be reproduced except in full, without the prior written approval of the issuing laboratory.



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AS FOUND RESULTS

Test Title	Applied Value	Tolerance	Reading	Uncertainty
System Temperature Data				
Comp @ -80°C	-74.9681°C	± 0.025°C	-74.968°C	± 7.6 mK
Mercury Fixed Pt.	-38.8344°C	± 0.025°C	-38.844°C	± 5.4 mK
Triple Point of H2O	0.0100°C	± 0.025°C	-0.001°C	± 5.1 mK
Tin Fixed Pt.	231.9280°C	± 0.025°C	231.925°C	± 5.7 mK
Zinc Fixed Pt.	419.5270°C	± 0.025°C	419.530°C	± 5.9 mK

Resistance Data

Ohms @ -74.965°C = 70.3321

Ohms @ -38.834°C = 84.7345

Ohms @ 0.010°C = 100.0105

Ohms @ 231.928°C = 187.5420

Ohms @ 419.527°C = 253.8292

Coefficients

Rtpw = 100.01050

Ap = -2.007346 E-02

Bp = -7.734434 E-06

An = -2.097860 E-02

Bn = -3.559373 E-03

END OF TEST DATA