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Certificate of Calibration

Size 300	Serial Number H688				
Temperature	Constant	Expanded Uncertainty* (k=2)			
	mm ² /s ² , (cSt/s)		mm ² /s, (cSt)		
40	0.2749	0.294	50 - 250		
100	0.2737				

^{*} In alignment with the Calibration and Measurement Capabilities of National Metrology Institutes, the expressed uncertainty is relative to the viscosity of water, and therefore the uncertainty of the viscosity of water (ISO/TR 3666 (1998), 0.17%) is not taken into account.

CALIBRATION DATA AT 40°C

Viscosity <u>Standard</u>	Kinematic Viscosity mm²/s, (cSt)	Efflux Time <u>Seconds</u>	Constant $\frac{\text{mm}^2/\text{s}^2}{\text{(cSt/s)}}$
160	69.28	252.04	0.2749
I100	127.0	461.72	0.2750

Average = 0.2749

ADDITIONAL INFORMATION

°C Ambient Temperature (approximate) 22

B =

x 10⁻⁶/°C 71

Charge (approximate) 6.2 ml

0.2753

Driving fluid head (approximate) 9.2 cm Working diameter of lower reservoir 3.0 cm

Kinematic viscosities of the standards used in calibrating were established in Master Viscometers as described in Ind. Eng. Chem. Anal. Ed. 16,708(1944), ASTM D 2162, and the Journal of Research of the National Bureau of Standards, Vol. 52, No. 3, March 1954, Research Paper 2479.

Kinematic viscosities are traceable to the viscosity of water, ISO 3666, at 20°C (ITS-90). Temperature measurements are traceable to NIST fixed-point calibration of SPRTs.

The gravitational constant, g, is 980.1 cm/sec² at the Cannon Instrument Company. The gravitational constant varies up to 0.1% in the United States. To make this small correction in the viscometer constant, multiply the above viscometer constant by the factor [g (at your laboratory) / 980.1].

Calibrated by

VSM on 10/22/2012



A2LA Cal Lab Cert #1262.01 The inclusion of the A2LA logo does not imply certification/approval of the products calibrated or tested.

> ISO 9001 Registered by UL #10002540 QM

under supervision of

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