

Certificate of Calibration

CANNON-FENSKE ROUTINE VISCOMETER			
Size 300		Serial Number J415	
Temperature	Constant	Expanded Uncertainty* (k=2)	Kinematic Viscosity Range
°C	mm ² /s ² , (cSt/s)	%	mm ² /s, (cSt)
40	0.2683	0.294	50 - 250
100	0.2671		

* 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 Standard	Kinematic Viscosity mm ² /s, (cSt)	Efflux Time Seconds	Constant mm ² /s ² , (cSt/s)
I60	69.25	258.18	0.2682
I100	126.9	472.97	0.2684

Average = 0.2683

ADDITIONAL INFORMATION

Ambient Temperature (approximate) **22 °C** $C_0 = 0.2687$ $B = 76 \times 10^{-6}/^{\circ}\text{C}$

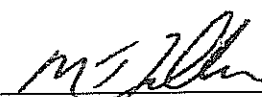
Charge (approximate) **6.4 ml** Driving fluid head (approximate) **8.9 cm** Working diameter of lower reservoir **3.0 cm**

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 **SDH** on 7/18/2013
 Issue Date 7/18/2013

under supervision of 
 D. T. Trowbridge Ph.D. Laboratory Technical Director
 J. T. Mastropiero Deputy Laboratory Technical Director
 M. T. Zubler Director of Quality Assurance



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