

Drop Volume Tensiometer

DVT50

Specifications



Product group specifications

DVT50

Volume measurement

Maximum volume	220 μL
Resolution	1 nL
Measurement rate	4 Hz

Syringe drive

Syringe volume	500 μL (standard; syringes from 50 up to 2500 μL are available)
Flow rate	0.265 to 1985 $\mu\text{L}/\text{min}$
Resolution	0.001 μL

Automation

Fully automatic refill	yes
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Software

LabDesk	drop volume
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Measurement specifications

DVT50

Drop volume

Results	surface tension (SFT)/interfacial tension (IFT)
Range	0.1 to 100 mN/m
Resolution	0.001 mN/m
Types	SFT: falling drop IFT: descending drop and rising drop

General specifications
DVT50
Sample dimensions

Minimum sample volume 20 mL

Temperature control

Type	liquid
Range	-10 to 90 °C
Flow-through thermostat	optional

Temperature measurement

Range	-20 to 150 °C
Resolution	0.1 °C
Precision	±0.1 °C
Accuracy	±0.5 °C
Location	cell

Housing and peripherals

Door	yes
Stainless steel measuring compartment	yes
Control panel	integrated
Display	integrated

Instrument dimensions

Footprint	240 mm × 300 mm (W × D)
Height	495 mm
Weight (without accessories)	13 kg

Power supply

Voltage (AC)	100 to 240 V
Power consumption	10 W
Frequency	47 to 63 Hz

Interfaces

PC	USB 2.0/RS232
Auxiliary	RS232
Thermostat	quick couplings