

One Click™ Melting Point Maximum Flexibility



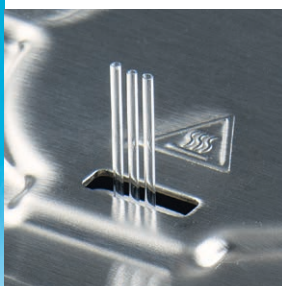
Thermal Values at a Glance

Melting, boiling, cloud and slip melting point measurements and evaluations are performed fully automatically, without the need for continuous visual observation. Boiling point results are automatically corrected to standard pressure with the built-in pressure sensor.



Identity and Purity

The instrument provides rapid and accurate methods for automatic property evaluation. Checks and quality control (QC) of materials with defined characteristics are possible.



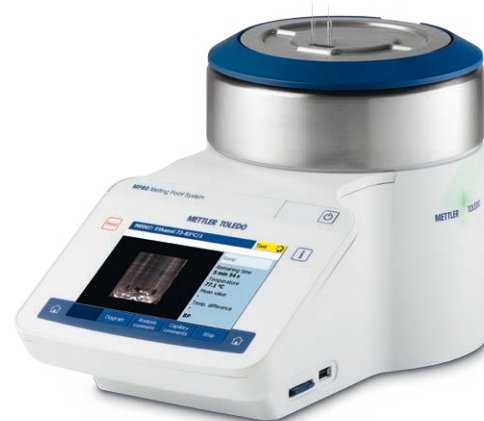
Maximum Efficiency

Simultaneous measurement of up to 3 samples for melting point/melting range, or up to 2 for boiling, cloud and slip melting points, saves valuable time and effort. Short heating and cooling times allow more analyses to be performed in a shorter period of time.



Video Recorded

Visual data is stored for unattended measurements. The high resolution color videos can be conveniently replayed on the instrument at any time, allowing measurement integrity to be verified.



MP80 Melting Point System

Optimized for diverse tasks, the MP80 offers One Click™ melting, boiling, cloud and slip melting points. The many other advantages available with this Excellence Melting Point System include:

- Enhanced export possibilities
- Color video recording
- Large results storage
- Sample preparation accessories

MP80 Functionality Overview

Applications	Fully automatic melting point (MP), melting range (MR), boiling point (BP), cloud point (CP) and slip melting point (SMP) determination. Pharmacopeia and Thermodynamic measurement modes
One Click™	12 shortcuts per user
Documentation	USB-P25 compact printer, network printer USB memory stick and network connection for import/export and PDF storage.
User Identification	30 different users, customized user rights/roles
Methods and Results	Pre-programmed method templates for automatic MP, MR, BP, CP and SMP detection. 20 methods, 6 reference substances Statistics: mean value, standard deviation, difference, outlier result exclusion possible Maximum number of results: 50 Video storage and replay on instrument and PC (with diagrams) 300 min video run time
Calibration and Adjustment	Fully automatic optics adjustment (position and brightness) One-, two and three-point temperature adjustment, automatic calibration and calculation of adjustment parameters
Languages	User interface in English, German, French, Spanish, Portuguese, Chinese, Russian, Japanese. Printout in English, German, French
Standard compliance	www.mt.com/mpdp-norms

MP80 Technical Specifications

Temperatures	Measurement range	Ambient – 350 °C
	Heating rate	0.1 – 20 °C/min
	Resolution	0.1 °C
	Heating time (50 to 300 °C)	4 min
	Cooling time (350 to 50 °C)	5.5 min
Environment	Ambient temperature	10 – 35 °C
	Atmospheric humidity	Max 80% at 31 °C
Dimensions	Width x depth x height / weight	18 x 35 x 19 cm / 4 kg
	Capillaries	MP: 3 (< 1.8 mm o.d.) BP, CP, SMP: 2
Terminal	5.7" VGA color touch screen	
	Video: color AVI, 6x magnification	
Communication	USB host (printer, memory stick, barcode reader, hub, keyboard, mouse): 3	
	Ethernet (Network and PC Software)	
	LabX® Express and Server (coming in 2017)	
Accuracy Melting Point*	Ambient – 200 °C	+/- 0.2 °C
	200 – 350 °C	+/- 0.5 °C
Accuracy Boiling Point*		+/- 0.5 °C
Repeatability Cloud Point*		+/- 0.2 °C
Repeatability Slip Melting Point*		+/- 0.2 °C

* Subject to sample, environment and handling

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Subject to technical changes
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