

Melting Point Excellence

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

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MP80 Functionality Overview

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|-----------------------------------|---|
| 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, 12 reference substances |
| | Statistics: mean value, standard deviation, difference, result outlier exclusion possible |
| | Maximum number of results: 50 |
| | Video storage and replay on instrument and PC (with diagrams) |
| | 300 min total 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, Italian, Portuguese, Chinese, Russian, Japanese, Korean 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 350 °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 | 18 x 35 x 19 cm |
| | Weight | 4 kg |
| | Capillaries | MP: 3 (< 1.8 mm o.d.) BP, CP, SMP: 2 |
| Terminal | 7" display with color touch screen | |
| | Video: color AVI, 9x magnification | |
| Communication | USB host (printer, memory stick, barcode reader, hub, keyboard, mouse): 3 | |
| | Ethernet (Network and PC Software) | |
| | LabX® Express and Server | |
| 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

METTLER TOLEDO Group

Analytical Division

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www.mt.com/MPDP

For more information

Subject to technical changes

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