

MP VPac™ Performance Verification

Secure Melting Point Self-Service



Convenient

Still manually preparing your melting point capillaries for calibration purposes? Use your valuable time for other tasks. Order the MP VPac which contains pre-filled capillaries of three different certified, high-purity melting point reference substances to perform calibrations and adjustments in the range from 40 to 230 °C.



Efficient

No sample grinding and time-consuming manual upfront filling of melting point capillaries is required. Just take the sealed capillaries and insert them into the MP instrument's furnace. The respective pre-programmed calibration method can be started directly without any modification.



Secure

The capillaries are filled with an appropriate amount of reference substance to ensure precise and reliable measurements. As no upfront preparation is required, handling errors are eliminated and operational security is maximized. The sealed capillaries provide ideal storage conditions over the entire shelf life of the reference substances.



Traceable

Each of the reference substances included in the MP VPac comes with a certificate that states the certified temperature value including measurement uncertainty. The purity is routinely checked by DSC measurements. The measured melting point is therefore a reliable way of checking the temperature accuracy and whether an adjustment is required.



Melting Point Performance Verification

Performance verification by temperature calibration is the recommended workflow to ensure faultless routine operation of the melting point instrument and secure result reliability. Certified reference substances provide an efficient way using an ordinary measurement, to verify the instrument's temperature accuracy over the whole specified range. With the unique MP VPac™ valuable time is saved in the melting point instrument calibration & adjustment process as upfront preparation is not required thanks to prefilled capillaries.

MP VPac™ ready-to-use Reference Substance Kit for Performance Verification of MP Excellence Instruments



Performance verification by temperature accuracy calibration is a dedicated service solution for users of Melting Point Excellence instruments. Use this cost-efficient and do-it-yourself service to:

- Gain confidence in generating accurate and reliable results.
- Control the performance of the melting point system.
- Receive an unbiased and traceable analysis verification.

Your needs	Your benefits
Quick and easy calibration procedure	Ready-to-use reference substances and pre-programmed calibration methods* in the melting point instrument
Reliable results	Pre-filled capillaries ensure correct measurement, result accuracy can be verified by nominal values on certificate
Flexibility	Performance testing according to instrument reminders or user-defined time periods**
Cost efficiency	Quick and easy check procedure and unbiased result assessment excluding costly external labor. One MPVPac kit provides up to 12 calibrations with the MP70 (4 capillaries per test), up to 16 with the MP55/MP80 (3 capillaries per test) and up to 8 with the MP90 (6 capillaries per test).
Trouble shooting	In case of calibration failure, the instrument is quickly adjusted and temperature accuracy re-established

*only available in the MP70, MP80 or MP90 instruments. In the MP55 the parameters of a standard method template need to be defined manually.

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Performance verification is recommended after:

- Setting up an instrument
- Operational qualification
- Monthly periodic check

The MP VPac™ contains the following melting point reference substances filled in 50 sealed standard METTLER TOLEDO melting point capillaries each, including certificates.

- Phenyl salicylate
Thermodynamic MP: 41.8 ± 0.2 °C
Pharmacopeia MP (1 °C/min heating rate): 43.8 ± 0.2 °C
- Benzoic acid
Thermodynamic MP: 122.4 ± 0.2 °C
Pharmacopeia MP (1 °C/min heating rate): 124.4 ± 0.2 °C
- Saccharin
Thermodynamic MP: 228.3 ± 0.3 °C
Pharmacopeia MP (1 °C/min heating rate): 230.3 ± 0.3 °C

Product	Order Number	Melting Point Instrument
MP VPac	30097033	MP55, MP70, MP80, MP90



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