

LABORATORY INSTRUMENTATION & PROCESS SYSTEMS

Osmometer

Measures the osmotic concentration of a solution by freezing-point depression.

DESCRIPTION

Determines the total concentration of dissolved particles in a solution by measuring how far its freezing point falls below that of pure water. The depression is proportional to osmolality regardless of what the solute is, which is why it remains the reference method for confirming that a parenteral is iso-osmotic before release.

APPLICATIONS

Parenteral and large-volume infusion release testing, ophthalmic solutions, dialysis fluids, cell culture media, clinical serum and urine.

METHOD & COMPLIANCE REFERENCE

Osmolality and osmolarity are described in USP <785> and Ph. Eur. 2.2.35.

SUPPLIED AND SUPPORTED IN BANGLADESH

- Import, customs, delivery, site preparation and installation.
- IQ/OQ qualification, scheduled calibration and validation support.
- Genuine spare parts, consumables and operator training in Dhaka.

Specifications, capacities and model options vary by configuration and are confirmed with each quotation. This sheet is generated from our product catalogue; the full manufacturer datasheet is available on request.