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Product Name :

Digital Melting Point Apparatus

Product Code :

SLE/ME/43



Description :

Digital Melting Point Apparatus (Product Code: SLE/ME/43) is a bench instrument used to determine the melting point of solid samples in chemistry, pharmacy and teaching laboratories. It heats two samples at once from ambient to 300 °C, climbing at 20 °C per minute to a chosen plateau and then at 2 °C per minute through the melt, with a PT100 sensor and a large three-digit LED readout. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a laboratory instruments supplier in India.

Specifications

Parameter	Detail
Number of samples	2
Temperature range	Ambient to 300 °C
Temperature resolution	1 °C
Temperature accuracy	±1% of displayed temperature
Display	Large three-digit LED
Sample status	Three LEDs show the state of the sample
Sensor	PT100
Ramp rates	20 °C per minute to plateau; 2 °C per minute to melt
Heating block	Behind a protective screen; heats quickly and holds the selected plateau temperature until the test is started
Viewing cover	Easily removed for access to the bulb and for cleaning
Feet	Extendable, to view samples at an optimum angle
Overall size	W160 x D220 x H170 mm
Mass	1.8 kg
Product code	SLE/ME/43
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is a Digital Melting Point Apparatus Used For?

Melting point is one of the quickest checks on the identity and purity of a crystalline solid: a pure compound melts sharply near its literature value, while impurities lower and widen the melting range. Students use this apparatus to confirm products they have synthesised or recrystallised, to compare an unknown with reference compounds, and to see how a mixed melting point shows whether two samples are the same substance. With two sample positions, an unknown and a reference can be run side by side.

In practice the block is first taken quickly to a plateau a little below the expected melting point, where watch ort, even