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Product Name :

Thiele Tube

Product Code :

SLE/CH/235



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Description :

The **Thiele Tube** (Product Code: SLE/CH/235) is a clear borosilicate glass tube, 25mm in diameter and 150mm long, used for determining the melting point of organic compounds. In the classic Thiele design, heat applied to the side loop sets up convection currents in the bath liquid, giving the slow, even warming that a sharp melting-point reading needs without a stirrer. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, for organic chemistry practicals in colleges, universities and pharmacy laboratories, and forms part of its chemistry lab glassware in India and for export.

Specifications

Parameter	Detail
Material	Borosilicate glass
Colour	Clear
Diameter of tube	25mm
Length	150mm
Heat resistance	Heat resistant
Chemical resistance	Chemical resistant
Application	Determining the melting point of organic compounds

Typical Use

For a melting-point determination, the tube is clamped by its neck to a retort stand and filled with a high-boiling bath liquid, such as liquid paraffin or silicone oil, to just above the upper junction of the side loop. A little of the powdered sample is packed into a capillary sealed at one end, the capillary is fixed to a thermometer so the sample sits beside the bulb, and the thermometer is lowered into the tube through a notched cork. Gentle heating of the side loop with a small flame then circulates the oil around the thermometer, and students record the range from the first droplet of liquid to a completely clear melt. A pure compound melts sharply, while impurities lower and broaden the range, which is why the Thiele tube remains a staple for identity and purity checks.

Slow the heating as the expected melting point approaches so the thermometer keeps pace with the sample. If a rubber ring is used to hold the capillary, keep it above the oil level where it will not soften. Let the bath cool completely before emptying or moving the tube. Well-kept borosilicate laboratory glassware of this kind gives consistent results over many practical sessions.

Manufacturer

The Thiele Tube is made by **Jain Scientific Equipments Private Limited**, known in laboratories as ScienceLab. The company operates from Ambala, Haryana, producing glassware and apparatus for chemistry teaching and routine analytical work. Our company profile has more abou

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