Science Lab

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Product Name :

Fusion Tube

Product Code :

MSRC1066



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Description :

Fusion Tube (Product Code: MSRC1066) is a short, rimless tube of heat-proof borosilicate glass 3.3, 75 mm long, used for strongly heating very small amounts of a substance. In organic chemistry practicals it is the standard vessel for the sodium fusion (Lassaigne's) test and, paired with a capillary, for boiling point determination of small liquid samples. Senior school, college and university chemistry labs buy it in quantity, and it is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a supplier of chemistry consumables and chemistry lab equipment in India that also provides the burners and holders used with it.

Specifications

Parameter	Detail
Model	SCL166
Material	Heat-proof borosilicate glass 3.3
Mouth	Without rim
Outer diameter	8 mm
Length	75 mm
Colour	Clear
Properties	Heat proof, chemical resistant
Application	Laboratory use

Typical Use

For the Lassaigne's test, a small piece of sodium and a little of the organic compound are heated in the fusion tube until it glows red, and the hot tube is then plunged into distilled water in a dish so that it cracks and releases the fused mass. The filtered extract is tested for nitrogen, sulphur and halogens. Because the tube is deliberately broken, each determination uses a fresh one, so labs normally keep a good stock on hand. This step involves reactive sodium and must be done under teacher supervision with eye protection.

For boiling point work, a few drops of the liquid are placed in the fusion tube, a capillary sealed at one end is dropped in open end down, and the assembly is tied to a thermometer and heated in a Thiele tube or melting point apparatus. The small bore keeps sample use low and gives even heating. Many labs order these tubes from the same lab glassware supplier in India as their test tubes and capillaries, so the sizes are consistent from batch to batch.

Supplier

Fusion tubes are part of the glass consumables that Jain Scientific Equipments Private Limited supplies under its ScienceLab trading name from Ambala, Haryana. Ordering them together with burners, holders and thermometers from one source keeps a practical kit complete. Company details are on the ScienceLab profile page.

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