DATASHEET

Mercury-Triple-Point-Cell

Isotech

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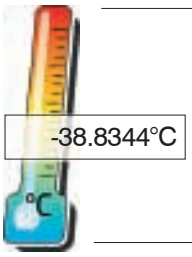

The Isotech **Mercury Cell**

- Uncertainty 0.000200°C
- Rugged Stainless Steel Construction
- 7N Pure

The Isotech Mercury Cell is constructed in a rugged, sealed stainless steel enclosure allowing the triple point of -38.8344°C to be realized both easily and safely.

Total Confidence

The embodiment of the Mercury Triple Point Cell was originally developed in the US with a very close cooperation between Henry Sostmann and Dr. Furukawa of N. B. S. (now NIST) over twenty years ago. The physical size, materials and metal purity are identical to this original design. The Mercury is distilled four times leaving impurities of 10 to 15 parts per billion. The cells made by Isotech still use the original design, purity and supplier of Mercury.

In international intercomparisons the cells made by Isotech have always been within the National Laboratories uncertainty of calibration and with over 20 years of successful use throughout the world the cell embodies the finest traditions of production and use.

After more than 20 years Dr. Furukawa opened some of the original cells and the Mercury was still above 99.99995% pure. A reflection of the long term performance of the design.

Operation

The cell can be realized in an Isotech stirred liquid bath such as the Hydra or 915 with plateau lengths of up to a week. For convenience, and to avoid the need to use a liquid, the dedicated Isotech Mercury Triple Point Apparatus can be used. This equipment is in use in many NMIs and commercial labs

Model	ITL-M-17724
Temperature	-38.8344°C
Metal Purity	> 99.99999 7N
Dimensions	
Outside Diameter	40mm
Inside Diameter	8mm
Total Height	475mm
Metal Depth	200mm
Uncertainty *	0.2mK

How to order
ITL-M-17724 Mercury Cell

The Cell is supplied with a Certificate of Metal Purity

*We have a choice of UKAS calibration Services, the stated uncertainty figure is for our Premium UKAS Calibration Service

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