

Thermometry, Costa Rica, LACOMET (Laboratorio Costarricense de Metrología)

Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty					Comments	NMI Service Identifier
Quantity	Instrument or artifact	Instrument Type or Method	Minimum value	Maximum value	units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?		
Temperature	Long stem SPRT	Mercury triple point	-38.8344	-38.8344	°C	Temperature	20 °C ± 2 °C	0.49	mK	2	95 %	No	Approved on 17 January 2013	LACOMET-02-1.3.2
						Relative humidity	55 % ± 10 %/rh							
Temperature	Long stem SPRT	Gallium melting point	29.7646	29.7646	°C	Sealed cell		0.48	mK	2	95 %	No	Approved on 17 January 2013	LACOMET-02-1.3.2
Temperature	Long stem SPRT	Indium freezing point	156.5985	156.5985	°C	Temperature	20 °C ± 2 °C	1.5	mK	2	95 %	No	Approved on 17 January 2013	LACOMET-02-1.3.2
						Relative humidity	55 % ± 15 %/rh							
Temperature	Long stem SPRT	Tin freezing point	231.928	231.928	°C	Temperature	20 °C ± 2 °C	1.5	mK	2	95 %	No	Approved on 17 January 2013	LACOMET-02-1.3.2
						Relative humidity	55 % ± 10 %/rh							
Temperature	Long stem SPRT	Zinc freezing point	419.527	419.527	°C	Temperature	20 °C ± 2 °C	1.9	mK	2	95 %	No	Approved on 17 January 2013	LACOMET-02-1.3.2
						Relative humidity	55 % ± 10 %/rh							
Temperature	Long stem SPRT	Aluminum freezing point	660.323	660.323	°C	Temperature	20 °C ± 2 °C	4.6	mK	2	95 %	No	Approved on 17 January 2013	LACOMET-02-1.3.2
						Relative humidity	55 % ± 10 %/rh							
Temperature	Thermistor	Comparison stirred alcohol and water baths	-20	50	°C	Temperature	20 °C ± 2 °C	8	mK	2	95 %	No	Approved on 17 January 2013	LACOMET-02-2.2.3
						Relative humidity	55 % ± 10 %/rh							
Temperature	Thermocouple (Type E, J, K, N and T)	Comparison stirred alcohol, water and oil baths	-20	200	°C	Temperature	20 °C ± 2 °C	0.8	°C	2	95 %	No	Approved on 17 January 2013	LACOMET-02-2.3.2
						Relative humidity	55 % ± 10 %/rh							