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Thermometry, New Zealand, MSL (Measurement Standards Laboratory)



Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables				Expanded (
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?	Comments	NMI Service Identifier
Temperature	Mercury triple point cell	Comparison with reference cell(s)	234.3156	234.3156	к	Cryostat		0.38	mK	2	95%	No	Approved on 24 June 2004 Modified on 09 February 2015	T1
Temperature	Gallium melting point cell	Comparison with reference cell(s)	29.7646	29.7646	°C	Temperature controlled furnace		0.13	mK	2	95%	No	Approved on 24 June 2004 Modified on 09 February 2015	Т3
Temperature	Indium freezing point cell	Comparison with reference cell(s)	156.5985	156.5985	ç	Temperature controlled furnace		0.52	mK	2	95%	No	Approved on 24 June 2004 Modified on 09 February 2015	T4
Temperature	Tin freezing point cell	Comparison with reference cell(s)	231.928	231.928	ç	Temperature controlled furnace		0.82	mK	2	95%	No	Approved on 24 June 2004 Modified on 09 February 2015	T5
Temperature	Zinc freezing point cell	Comparison with reference cell(s)	419.527	419.527	ç	Temperature controlled furnace		1.90	mK	2	95%	No	Approved on 24 June 2004 Modified on 09 February 2015	Т6
Temperature	SPRT	Mercury triple point cell	-38.8344	-38.8344	ç	Fixed point cell		0.40	mK	2	95%	No	Approved on 24 June 2004 Modified on 09 February 2015	Τ7
Temperature	SPRT	Gallium melting point cell	29.7646	29.7646	Ŷ	Fixed point cell		0.19	mK	2	95%	No	Approved on 24 June 2004 Modified on 09 February 2015	Т9
Temperature	SPRT	Indium freezing point cell	156.5985	156.5985	°C	Fixed point cell		0.56	mK	2	95%	No	Approved on 24 June 2004 Modified on 09 February 2015	T10
Temperature	SPRT	Tin freezing point cell	231.928	231.928	ç	Fixed point cell		0.85	mK	2	95%	No	Approved on 24 June 2004 Modified on 09 February 2015	T11
Temperature	SPRT	Zinc freezing point cell	419.527	419.527	ç	Fixed point cell		1.90	mK	2	95%	No	Approved on 24 June 2004 Modified on 09 February 2015	T12

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Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables				Expanded				
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?	Comments	NMI Service Identifier
Temperature	SPRT	Water triple point cell	0.01	0.01	°C			0.12	mK	2	95%	No	Approved on 23 November 2009 Modified on 09 February 2015	
Temperature	IPRTs	Comparison with SPRT in mineral oil bath	-40	60	Ŷ			(2 + 2E- 05 <i>t</i>), <i>t</i> in ℃	тK	2	95%	No	Interpolation equation used. Minimum 16 points. Hysteresis measurement. Approved on 16 March 2011	
Temperature	IPRTs	Comparison with SPRT in mineral oil bath	60	200	°C			(2 + 2E- 05 <i>t</i>), <i>t</i> in °C	тK	2	95%	No	Interpolation equation used. Minimum 16 points. Hysteresis measurement. Approved on 16 March 2011	
Temperature	IPRTs	Comparison with SPRT in salt oil bath	200	420	℃			(2 + 2E- 05 <i>t</i>), <i>t</i> in ℃	mK	2	95%	No	Interpolation equation used. Minimum 16 points. Hysteresis measurement. Approved on 16 March 2011	