Thermometry, Singapore, NMC, A*STAR (National Metrology Centre, Agency for Science, Technology and Research)

Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty							
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?	Uncertainty Matrix	NMI Internal identifier	Comments
Temperature	Gallium melting point cell	Comparison with reference cell(s)	29.7646	29.7646	°C	Temperature controlled furnace		0.4	mK	2	95%	No			Approved on 24 June 2004 Modified on 09 February 2015
Temperature	Tin freezing point cell	Comparison with reference cell(s)	231.928	231.928	°C	Temperature controlled furnace		1	mK	2	95%	No			Approved on 24 June 2004 Modified on 09 February 2015
Temperature	Zinc freezing point cell	Comparison with reference cell(s)	419.527	419.527	°C	Temperature controlled furnace		1	mK	2	95%	No			Approved on 24 June 2004 Modified on 09 February 2015
Temperature	Water triple point cell	Comparison with reference cell(s)	0.01	0.01	°C	Cell immersed in temperature controlled bath		0.28	mK	2	95%	No			Approved on 16 March 2011 Modified on 09 February 2015
Temperature	SPRT	Water triple point cell	0.01	0.01	°C	Cell immersed in temperature controlled bath		0.3	mK	2	95%	No			Approved on 16 March 2011
Temperature	SPRT	Gallium melting point cell	29.7646	29.7646	°C	Temperature controlled furnace		1	mK	2	95%	No			Approved on 24 June 2004 Modified on 09 February 2015
Temperature	SPRT	Tin freezing point cell	231.928	231.928	°C	Temperature controlled furnace		3	mK	2	95%	No			Approved on 24 June 2004 Modified on 09 February 2015
Temperature	SPRT	Zinc freezing point cell	419.527	419.527	°C	Temperature controlled furnace		4	mK	2	95%	No			Approved on 24 June 2004 Modified on 09 February 2015

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Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty							
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?	Uncertainty Matrix	NMI Internal identifier	Comments
Temperature	SPRT	Aluminum freezing point cell	660.323	660.323	°C	Temperature controlled furnace		6	mK	2	95%	No		TM047	Approved on 05 June 2014 Modified on 09 February 2015
Temperature	Thermocouple (Type S&R)	Calibration at ice melting point	0	0	°C			0.05	°C	2	95%	No		TM018	Approved on 16 March 2011
Temperature	Thermocouple (Type S&R)	Calibration at indium freezing point	156.5985	156.5985	°C			0.05	°C	2	95%	No		TM019	Approved on 16 March 2011
Temperature	Thermocouple (Type S&R)	Calibration at tin freezing point	231.928	231.928	°C			0.06	°C	2	95%	No		TM020	Approved on 16 March 2011
Temperature	Thermocouple (Type B)	Calibration at tin freezing point	231.928	231.928	°C			0.09	°C	2	95%	No		TM020	Approved on 16 March 2011
Temperature	Thermocouple (Type S&R)	Calibration at zinc freezing point	419.527	419.527	°C			0.09	°C	2	95%	No		TM021	Approved on 16 March 2011
Temperature	Thermocouple (Type B)	Calibration at zinc freezing point	419.527	419.527	°C			0.10	°C	2	95%	No		TM021	Approved on 16 March 2011
Temperature	Thermocouple (Type S, R&B)	Calibration at aluminum freezing point	660.323	660.323	°C			0.11	°C	2	95%	No		TM022	Approved on 16 March 2011
Temperature	Thermocouple (Type S,R&B)	Calibration at silver freezing point	961.78	961.78	°C			0.13	°C	2	95%	No		TM023	Approved on 16 March 2011
Temperature	Thermocouple (Type S&R)	Comparison in water bath	0	80	°C			0.05	°C	2	95%	No		TM024	Approved on 16 March 2011
Temperature	Thermocouple (Type S&R)	Comparison in oil bath	80	250	°C			0.05 to 0.12	°C	2	95%	No		TM025	Approved on 16 March 2011
Temperature	Thermocouple (Type S&R)	Comparison in salt bath	250	500	°C			0.12 to 0.18	°C	2	95%	No		TM026	Approved on 16 March 2011
Temperature	Thermocouple (Type B)	Comparison in salt bath	250	500	°C			0.13 to 0.18	°C	2	95%	No		TM026	Approved on 16 March 2011

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Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty							
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?	Uncertainty Matrix	NMI Internal identifier	Comments
Temperature	Thermocouple (TypeS, R&B)	Comparison in heatpipe furnace	500	1000	°C			0.48	°C	2	95%	No		TM027	Approved on 16 March 2011
Temperature	IPRT	Calibration by comparison at temperature points and using interpolation function for range	-75	5	°C	Temperature controlled bath	alcohol bath	9	mK	2	95%	No		TM011	CMC uncertainty does not include DUT hysteresis Approved on 16 March 2011
Temperature	IPRT	Measurement at ice point	0	0	°C	Dewar	distilled water	4	mK	2	95%	No		TM012	CMC uncertainty does not include DUT hysteresis Approved on 16 March 2011
Temperature	IPRT	Calibration by comparison at temperature points and using interpolation function for range	5	250	°C	Temperature controlled bath	water, oil bath	9	mK	2	95%	No		TM013	CMC uncertainty does not include DUT hysteresis Approved on 16 March 2011
Temperature	IPRT	Calibration by comparison at temperature points and using interpolation function for range	250	500	°C	Temperature controlled bath	salt bath	20	mK	2	95%	No		TM014	CMC uncertainty does not include DUT hysteresis Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 0.01 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.01	°C	2	95%	No		TM015	Approved on 16 March 2011

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Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty							
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?	Uncertainty Matrix	NMI Internal identifier	Comments
Temperature	Liquid-in-glass thermometer	Total immersion, 0.01 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.01	°C	2	95%	No		TM016	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 0.02 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.01	°C	2	95%	No		TM015	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 0.05 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.015	°C	2	95%	No		TM015	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 0.05 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.02	°C	2	95%	No		TM016	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 0.1 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.03	°C	2	95%	No		TM015	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 0.1 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.03	°C	2	95%	No		TM016	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 0.2 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.05	°C	2	95%	No		TM015	Approved on 16 March 2011

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Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty							
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?	Uncertainty Matrix	NMI Internal identifier	Comments
Temperature	Liquid-in-glass thermometer	Total immersion, 0.2 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.05	°C	2	95%	No		TM016	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 0.5 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.15	°C	2	95%	No		TM015	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 0.5 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.15	°C	2	95%	No		TM016	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 1 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.3	°C	2	95%	No		TM015	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 1 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.3	°C	2	95%	No		TM016	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 1 °C graduation. Comparison method	250	370	°C	Temperature controlled bath	salt bath	0.3	°C	2	95%	No		TM017	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 2 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.5	°C	2	95%	No		TM015	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 2 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.5	°C	2	95%	No		TM016	Approved on 16 March 2011

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Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty							
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?	Uncertainty Matrix	NMI Internal identifier	Comments
Temperature	Liquid-in-glass thermometer	Total immersion, 5 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	1.5	°C	2	95%	No		TM015	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Total immersion, 5 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	1.5	°C	2	95%	No		TM016	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Partial immersion, 0.01 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.01	°C	2	95%	No		TM015	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Partial immersion, 0.01 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.015	°C	2	95%	No		TM016	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Partial immersion, 0.02 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.01	°C	2	95%	No		TM015	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Partial immersion, 0.02 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.015	°C	2	95%	No		TM016	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Partial immersion, 0.05 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.015	°C	2	95%	No		TM015	Approved on 16 March 2011

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Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty							
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?	Uncertainty Matrix	NMI Internal identifier	Comments
Temperature	Liquid-in-glass thermometer	Partial immersion, 0.05 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.02	°C	2	95%	No		TM016	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Partial immersion, 0.1 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.05	°C	2	95%	No		TM015	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Partial immersion, 0.1 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.05	°C	2	95%	No		TM016	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Partial immersion, 0.2 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.05	°C	2	95%	No		TM015	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Partial immersion, 0.2 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.05	°C	2	95%	No		TM016	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Partial immersion, 0.5 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.15	°C	2	95%	No		TM015	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Partial immersion, 0.5 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.15	°C	2	95%	No		TM016	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Partial immersion, 1 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.3	°C	2	95%	No		TM015	Approved on 16 March 2011

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Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty							
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?	Uncertainty Matrix	NMI Internal identifier	Comments
Temperature	Liquid-in-glass thermometer	Partial immersion, 1 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.3	°C	2	95%	No		TM016	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Partial immersion, 2 °C graduation. Comparison method	-75	80	°C	Temperature controlled bath	alcohol, water bath	0.5	°C	2	95%	No		TM015	Approved on 16 March 2011
Temperature	Liquid-in-glass thermometer	Partial immersion, 2 °C graduation. Comparison method	80	250	°C	Temperature controlled bath	oil bath	0.5	°C	2	95%	No		TM016	Approved on 16 March 2011
Dew-point temperature	Dew-point hygrometer	Comparison	-65	-60	°C	Pressure	ambient	0.18 to 0.13	°C	2	95%	No			Approved on 28 June 2007
Dew-point temperature	Dew-point hygrometer	Comparison	-60	-50	°C	Pressure	ambient	0.13 to 0.10	°C	2	95%	No			Approved on 28 June 2007
Dew-point temperature	Dew-point hygrometer	Comparison	-50	20	°C	Pressure	ambient	0.10	°C	2	95%	No			Approved on 28 June 2007
Dew-point temperature	Dew-point hygrometer	Comparison	20	30	°C	Pressure	ambient	0.10 to 0.11	°C	2	95%	No			Approved on 28 June 2007
Dew-point temperature	Dew-point hygrometer	Comparison	-75	-70	°C	Pressure	ambient	0.28 to 0.22	°C	2	95 %	No			Approved on 16 March 2011
Dew-point temperature	Dew-point hygrometer	Comparison	-70	-65	°C	Pressure	ambient	0.22 to 0.18	°C	2	95 %	No			Approved on 16 March 2011
Temperature	Fixed-point blackbody furnace (Cu)	Comparison using radiation thermometer	1084.62	1084.62	°C	Wavelength	0.65 µm or 0.9 µm	0.29	°C	2	95%	No		TM030	Approved on 28 May 2012
Temperature	Radiation thermometer	Direct scale realization by measurement of relative spectral responsivity	961.78	1600	°C	Wavelength	0.65 µm	0.24 to 0.54	°C	2	95%	No	Matrix for Rad Therm 65	TM032	Approved on 28 May 2012

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Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty							
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?	Uncertainty Matrix	NMI Internal identifier	Comments
Temperature	Radiation thermometer	Direct scale realization by measurement of relative spectral responsivity	800	1600	°C	Wavelength	0.9 µm	0.24 to 0.84	°C	2	95%	No	Matrix for Rad Therm 90	TM032	Approved on 28 May 2012
Temperature	Radiation thermometer	Direct scale realization by interpolation between fixed points	420	962	°C	Wavelength	1.6 µm	0.24 to 0.35	°C	2	95%	No		TM033	Approved on 28 May 2012
Temperature	Variable temperature blackbody furnace	Comparison using radiation thermometer	-30	90	°C	Wavelength	8 µm to 14 µm	0.4 to 0.3	°C	2	95%	No		TM034	Approved on 28 May 2012
Temperature	Variable temperature blackbody furnace	Comparison using radiation thermometer	90	150	°C	Wavelength	8 µm to 14 µm	0.4	°C	2	95%	No		TM035	Approved on 28 May 2012
Temperature	Variable temperature blackbody furnace	Comparison using radiation thermometer	150	250	°C	Wavelength	1.6 µm	0.3	°C	2	95%	No		TM036	Approved on 28 May 2012
Temperature	Variable temperature blackbody furnace	Calibration by reference radiation thermometer	420	700	°C	Wavelength	1.6 µm	0.4	°C	2	95%	No		TM037	Approved on 28 May 2012
Temperature	Strip lamp (vacuum)	Calibration by reference radiation thermometer	960	1700	°C	Wavelength	0.65 µm	1.0	°C	2	95%	No		TM038	Approved on 28 May 2012
Temperature	Strip lamp (gas filled)	Calibration by reference radiation thermometer	1600	2200	°C	Wavelength	0.65 µm	2.5 to 3.1	°C	2	95%	No	Matrix for Gas lamp	TM039	Approved on 28 May 2012
Temperature	Radiation thermometer	Comparison using variable temperature blackbody furnace	-30	90	°C	Wavelength	8 µm to 14 µm	0.4 to 0.3	°C	2	95%	No		TM040	Approved on 28 May 2012

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Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty							
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?	Uncertainty Matrix	NMI Internal identifier	Comments
Temperature	Radiation thermometer	Comparison using variable temperature blackbody furnace	90	150	°C	Wavelength	8 µm to 14 µm	0.31	°C	2	95%	No		TM041	Approved on 28 May 2012
Temperature	Radiation thermometer	Comparison using variable temperature blackbody furnace	1000	1600	°C	Wavelength	0.8 µm to 1.1 µm	0.70 to 1.02	°C	2	95%	No	Matrix for Land RT	TM043	Approved on 28 May 2012
Temperature	Disappearing filament pyrometer	Calibration by reference strip lamp	960	1400	°C			4	°C	2	95%	No		TM045	Approved on 28 May 2012
Temperature	Disappearing filament pyrometer	Calibration by reference strip lamp	1500	2000	°C			6	°C	2	95%	No		TM046	Approved on 28 May 2012
Relative humidity	RH sensors	Comparison	10	95	%rh	Temperature	0 °C to 30°C	(0.0064*RH* + 0.35), *RH* relative humidity in %rh	%rh	2	95%	No		TM48	Approved on 20 April 2017
						Pressure	ambient								
Temperature	RH sensors	Comparison	15	40	°C	Relative humidity	10 % to 95 %	0.06	°C	2	95%	No		TM49	Approved on 20 April 2017
						Pressure	ambient								
Temperature	RH sensors	Comparison	40	70	°C	Relative humidity	10 % to 95 %	0.10	°C	2	95%	No		TM49	Approved on 20 April 2017
						Pressure	ambient								
Temperature	RH sensors	Comparison	0	15	°C	Relative humidity	10 % to 95 %	0.10	°C	2	95%	No		TM49	Approved on 20 April 2017
						Pressure	ambient								

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Uncertainty matrix: Matrix for Rad Therm 65

Temperature. Radiation thermometer. Internal identifier: TM032

	0.65 µm
1000 °C	0.24
1100 °C	0.30
1200 °C	0.29
1300 °C	0.50
1400 °C	0.42
1500 °C	0.50
1600 °C	0.54

The expanded uncertainties given in this table are expressed in °C.

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Uncertainty matrix: Matrix for Rad Therm 90

Temperature. Radiation thermometer. Internal identifier: TM032

	0.9 µm
800 °C	0.24
900 °C	0.32
1000 °C	0.40
1100 °C	0.46
1200 °C	0.52
1300 °C	0.59
1400 °C	0.66
1500 °C	0.75
1600 °C	0.84

The expanded uncertainties given in this table are expressed in °C.

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Uncertainty matrix: Matrix for Gas lamp

Temperature. Strip lamp (gas filled). Internal identifier: TM039

	0.65 µm
1600 °C	2.5
1700 °C	2.5
1800 °C	2.8
1900 °C	2.8
2000 °C	2.6
2100 °C	2.9
2200 °C	3.1

The expanded uncertainties given in this table are expressed in °C.

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Uncertainty matrix: Matrix for Land RT

Temperature. Radiation thermometer. Internal identifier: TM043

	0.8 µm to 1.1 µm
1000 °C	0.70
1100 °C	0.73
1200 °C	0.78
1300 °C	0.83
1400 °C	0.90
1500 °C	0.96
1600 °C	1.02

The expanded uncertainties given in this table are expressed in °C.