

Thermometry

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Ukraine, NSC IM (National Scientific Centre "Institute of Metrology")

No	NDETU / DETU	Number of CMCs	KCDB CMC ID	Quantity	Instrument or Artifact	Method of Measurement	Parameters	Measurand	Uncertainty	Comments	Approval date	NMI Service Identifier
1	DETU 06-03-96	6	EURAMET-T-UA-00000OSA-1	Temperature	Fixed-point blackbody cell (Cu)	Comparison using radiation thermometer	Wavelength : 0.661 μ m Black body furnace : isothermal Crucible diameter : 38 mm	1084.62 $^{\circ}$ C	0.4 $^{\circ}$ C (Absolute)		2016-11-15	NSC IM/T
2			EURAMET-T-UA-00000OSD-1	Temperature	Fixed-point blackbody furnace (Cu)	Comparison using radiation thermometer	Wavelength : 0.661 μ m	1084.62 $^{\circ}$ C	0.4 $^{\circ}$ C (Absolute)		2016-11-15	NSC IM/T
3			EURAMET-T-UA-00000OSF-1	Temperature	Standard radiation thermometer	Calibration against standard fixed-point (Cu) blackbody	Wavelength : 0.661 μ m Target diameter : < 3 mm	1084.62 $^{\circ}$ C	0.5 $^{\circ}$ C (Absolute)		2016-11-15	NSC IM/T
4			EURAMET-T-UA-00000OTS-1	Temperature	Vacuum tungsten strip lamp	Comparison using radiation thermometer	Wavelength : 0.661 μ m	1084.62 $^{\circ}$ C	0.7 $^{\circ}$ C (Absolute)		2016-11-15	NSC IM/T
5			EURAMET-T-UA-00000OT7-1	Temperature	Radiation thermometer	Calibration against variable temperature blackbody	Wavelength : 0.66 μ m Target diameter : < 10 mm	1085.0 $^{\circ}$ C	1.1 $^{\circ}$ C (Absolute)		2016-11-15	NSC IM/T
6			EURAMET-T-UA-00000OT3-1	Temperature	Variable temperature blackbody	Calibration using standard radiation thermometer	Wavelength : 0.661 μ m Aperture diameter : > 4.5 mm	1085.0 $^{\circ}$ C	0.9 $^{\circ}$ C (Absolute)		2016-11-15	NSC IM/T
7	DETU 06-05-98	58	EURAMET-T-UA-00000OS8-1	Temperature	SPRT	Calibration at fixed points	Temperature-controlled furnace : 3-zone	660.323 $^{\circ}$ C	0.01 $^{\circ}$ C (Absolute)		2020-03-31	NSC IM/T
8			EURAMET-T-UA-00000OS9-1	Temperature	Water triple point cell	Direct comparison	Thermostat : ice bath	0.01 $^{\circ}$ C	0.15 mK (Absolute)		2013-09-06	NSC IM/25
9			EURAMET-T-UA-00000OSB-1	Temperature	Long-stem Standard Platinum Resistance Thermometer	Water triple fixed point	Thermostat : ice bath	0.01 $^{\circ}$ C	0.2 mK (Absolute)		2013-09-06	NSC IM/26
10			EURAMET-T-UA-00000OSC-1	Temperature	SPRT	Calibration at fixed points	Temperature-controlled furnace : 3-zone	[0.01 , 660.323] $^{\circ}$ C	[0.005 , 0.01] $^{\circ}$ C (Absolute)		2020-03-31	NSC IM/T
11			EURAMET-T-UA-00000OSE-1	Temperature	Long-stem Standard Platinum Resistance Thermometer	Calibration at fixed points	Fixed points : TPW, Ga	[0.01 , 29.7646] $^{\circ}$ C	[0.2 , 0.35] mK (Absolute)		2013-09-06	NSC IM/27
12			EURAMET-T-UA-00000OSG-1	Temperature	Long-stem Standard Platinum Resistance Thermometer	Calibration at fixed points	Fixed points : TPW, In	[0.01 , 156.5985] $^{\circ}$ C	[0.2 , 1.1] mK (Absolute)		2013-09-06	NSC IM/28
13			EURAMET-T-UA-00000OSH-1	Temperature	Long-stem Standard Platinum Resistance Thermometer	Calibration at fixed points	Fixed points : TPW, In, Sn	[0.01 , 231.928] $^{\circ}$ C	[0.2 , 1.3] mK (Absolute)		2013-09-06	NSC IM/29

14	EURAMET-T-UA-00000OSI-1	Temperature	Long-stem Standard Platinum Resistance Thermometer	Calibration at fixed points	Fixed points : TPW, Sn, Zn	[0.01 , 419.527] °C	[0.2 , 1.4] mK (Absolute)		2013-09-06	NSC IM/30
15	EURAMET-T-UA-00000OSJ-1	Temperature	Gallium cell	Direct comparison	Temperature-controlled furnace : 1-zone	29.7646 °C	0.2 mK (Absolute)		2011-09-23	NSC IM/1
16	EURAMET-T-UA-00000OSK-1	Temperature	Indium cell	Direct comparison	Temperature-controlled furnace : 1-zone	156.5985 °C	1.0 mK (Absolute)		2011-09-23	NSC IM/2
17	EURAMET-T-UA-00000OSL-1	Temperature	Tin cell	Direct comparison	Temperature-controlled furnace : 3-zone	231.928 °C	0.9 mK (Absolute)		2011-09-23	NSC IM/3
18	EURAMET-T-UA-00000OSM-1	Temperature	Zinc cell	Direct comparison	Temperature-controlled furnace : 3-zone	419.527 °C	0.9 mK (Absolute)		2011-09-23	NSC IM/4
19	EURAMET-T-UA-00000OSN-1	Temperature	Long stem SPRT	Calibration at gallium fixed point	Temperature-controlled furnace : 1-zone	29.7646 °C	0.5 mK (Absolute)		2011-09-23	NSC IM/5
20	EURAMET-T-UA-00000OSO-1	Temperature	Long stem SPRT	Calibration at indium fixed point	Temperature-controlled furnace : 1-zone	156.5985 °C	1.1 mK (Absolute)		2011-09-23	NSC IM/6
21	EURAMET-T-UA-00000OSP-1	Temperature	Long stem SPRT	Calibration at tin fixed point	Temperature-controlled furnace : 3-zone	231.928 °C	1.0 mK (Absolute)		2011-09-23	NSC IM/7
22	EURAMET-T-UA-00000OSQ-1	Temperature	Long stem SPRT	Calibration at zinc fixed point	Temperature-controlled furnace : 3-zone	419.527 °C	1.1 mK (Absolute)		2011-09-23	NSC IM/8
23	EURAMET-T-UA-00000OSR-1	Temperature	Thermocouple (type Pt/Pd)	Calibration at fixed points	Sn, Zn, Al, Cu : 3-zone	[231.928 , 1084.62] °C	0.4 °C (Absolute)		2016-11-15	NSC IM/T
24	EURAMET-T-UA-00000OSS-1	Temperature	Digital thermometer IPRT	Calibration at indium fixed point	Temperature-controlled furnace : 1-zone	156.5985 °C	0.4 °C (Absolute)	Uncertainty at the calibration point. Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the calibration report	2011-09-23	NSC IM/22
25	EURAMET-T-UA-00000OST-1	Temperature	Thermocouple (type Au/Pt)	Aluminium fixed point	Temperature-controlled furnace : 3-zone	660.323 °C	0.3 °C (Absolute)		2016-11-15	NSC IM/T
26	EURAMET-T-UA-00000OSU-1	Temperature	Digital thermometer IPRT	Calibration at tin fixed point	Temperature-controlled furnace : 3-zone	231.928 °C	0.4 °C (Absolute)	Uncertainty at the calibration point. Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the calibration report	2011-09-23	NSC IM/23
27	EURAMET-T-UA-00000OSV-1	Temperature	Thermocouple (type Au/Pt)	Calibration at fixed points	Ga, In, Sn, Zn, Al : 3-zone	[29.7646 , 660.323] °C	0.3 °C (Absolute)		2016-11-15	NSC IM/T
28	EURAMET-T-UA-00000OSW-1	Temperature	Digital thermometer IPRT	Calibration at fixed points	Temperature-controlled furnace : 3-zone	660.323 °C	0.1 °C (Absolute)		2020-03-31	NSC IM/T
29	EURAMET-T-UA-00000OSX-1	Temperature	Base metal type J	Comparison method	Temperature-controlled furnace : 3-zone	[0.0 , 760.0] °C	0.9 °C (Absolute)		2016-11-15	NSC IM/T

30	EURAMET-T-UA-00000OSY-1	Temperature	Digital thermometer IPRT	Calibration at zinc fixed point	Temperature-controlled furnace : 3-zone	419.527 °C	0.4 °C (Absolute)	Uncertainty at the calibration point. Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the calibration report	2011-09-23	NSC IM/24
31	EURAMET-T-UA-00000OSZ-1	Temperature	Base metal type E, K, N	Comparison method	Temperature-controlled furnace : 3-zone	[0.0 , 1100.0] °C	1.3 °C (Absolute)		2016-11-15	NSC IM/T
32	EURAMET-T-UA-00000OT0-1	Temperature	IPRT	Calibration at fixed points	Temperature-controlled furnace : 3-zone	660.323 °C	0.1 °C (Absolute)		2020-03-31	NSC IM/T
33	EURAMET-T-UA-00000OT1-1	Temperature	IPRT	Calibration at fixed points	Temperature-controlled furnace : 3-zone	[0.01 , 660.323] °C	[0.05 , 0.1] °C (Absolute)		2020-03-31	NSC IM/T
34	EURAMET-T-UA-00000OT2-1	Temperature	Digital thermometer IPRT	Calibration at fixed points	Temperature-controlled furnace : 3-zone	[0.01 , 660.323] °C	[0.05 , 0.1] °C (Absolute)		2020-03-31	NSC IM/T
35	EURAMET-T-UA-00000OT4-1	Temperature	Digital thermometer IPRT	Calibration at gallium fixed point	Temperature-controlled bath : 0	29.7646 °C	0.03 °C (Absolute)		2020-03-31	NSC IM/T
36	EURAMET-T-UA-00000OT6-1	Temperature	Digital thermometer IPRT	Calibration at indium fixed point	Temperature-controlled furnace : 3-zone	156.5985 °C	0.07 °C (Absolute)		2020-03-31	NSC IM/T
37	EURAMET-T-UA-00000OT8-1	Temperature	Industrial Platinum Resistance Thermometer	Ice melting point	Thermostat : ice bath	0.0 °C	5.0 mK (Absolute)	Hysteresis uncertainty for IPRT must be added to the uncertainty quoted in the calibration report	2013-09-06	NSC IM/31
38	EURAMET-T-UA-00000OT9-1	Temperature	Digital thermometer IPRT	Calibration at tin fixed point	Temperature-controlled furnace : 3-zone	231.928 °C	0.07 °C (Absolute)		2020-03-31	NSC IM/T
39	EURAMET-T-UA-00000OTA-1	Temperature	Mercury-in-glass, total immersion, 0.1 °C graduation	Ice melting point	Thermostat : ice bath	0.0 °C	0.05 °C (Absolute)		2013-09-06	NSC IM/32
40	EURAMET-T-UA-00000OTB-1	Temperature	Digital thermometer IPRT	Calibration at zinc fixed point	Temperature-controlled furnace : 3-zone	419.527 °C	0.08 °C (Absolute)		2020-03-31	NSC IM/T
41	EURAMET-T-UA-00000OTC-1	Temperature	Mercury-in-glass, total immersion, 0.2 °C graduation	Ice melting point	Thermostat : ice bath	0.0 °C	0.07 °C (Absolute)		2013-09-06	NSC IM/33
42	EURAMET-T-UA-00000OTD-1	Temperature	Mercury-in-glass, partial immersion, 0.1 °C graduation	Ice melting point	Thermostat : ice bath	0.0 °C	0.05 °C (Absolute)		2013-09-06	NSC IM/34
43	EURAMET-T-UA-00000OTE-1	Temperature	Mercury-in-glass, partial immersion, 0.2 °C graduation	Ice melting point	Thermostat : ice bath	0.0 °C	0.07 °C (Absolute)		2013-09-06	NSC IM/35

44	EURAMET-T-UA-00000OTJ-1	Temperature	Thermocouple (type S and R)	Calibration at gallium fixed point	Temperature-controlled furnace : 3-zone	29.7646 °C	0.2 °C (Absolute)	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry	2011-09-23	NSC IM/9
45	EURAMET-T-UA-00000OTL-1	Temperature	Thermocouple (type S and R)	Calibration at indium fixed point	Temperature-controlled furnace : 3-zone	156.5985 °C	0.2 °C (Absolute)	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry	2011-09-23	NSC IM/10
46	EURAMET-T-UA-00000OTN-1	Temperature	Thermocouple (type S and R)	Calibration at tin fixed point	Temperature-controlled furnace : 3-zone	231.928 °C	0.2 °C (Absolute)	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry	2011-09-23	NSC IM/11
47	EURAMET-T-UA-00000OTP-1	Temperature	Thermocouple (type S and R)	Calibration at zinc fixed point	Temperature-controlled furnace : 3-zone	419.527 °C	0.2 °C (Absolute)	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry	2011-09-23	NSC IM/12
48	EURAMET-T-UA-00000OTR-1	Temperature	Thermocouple Pt/Pd	Calibration at tin fixed point	Temperature-controlled furnace : 3-zone	231.928 °C	0.2 °C (Absolute)	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry	2011-09-23	NSC IM/13
49	EURAMET-T-UA-00000OTT-1	Temperature	Thermocouple Pt/Pd	Calibration at zinc fixed point	Temperature-controlled furnace : 3-zone	419.527 °C	0.2 °C (Absolute)	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry	2011-09-23	NSC IM/14
50	EURAMET-T-UA-00000OTU-1	Temperature	Thermocouple (type S and R)	Aluminium fixed point	Temperature-controlled furnace : 3-zone	660.323 °C	0.3 °C (Absolute)		2016-11-15	NSC IM/T
51	EURAMET-T-UA-00000OTV-1	Temperature	Thermocouple (type S and R)	Copper fixed point	Temperature-controlled furnace : 3-zone	1084.62 °C	0.4 °C (Absolute)		2016-11-15	NSC IM/T
52	EURAMET-T-UA-00000OTW-1	Temperature	Thermocouple Au/Pt	Calibration at tin fixed point	Temperature-controlled furnace : 3-zone	231.928 °C	0.2 °C (Absolute)	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry	2011-09-23	NSC IM/15
53	EURAMET-T-UA-00000OTX-1	Temperature	Thermocouple (type S and R)	Calibration at fixed points	Sn, Zn, Al, Cu : 3-zone	[231.928 , 1084.62] °C	0.4 °C (Absolute)		2016-11-15	NSC IM/T

54		EURAMET-T-UA-000000TY-1	Temperature	Thermocouple Au/Pt	Calibration at zinc fixed point	Temperature-controlled furnace : 3-zone	419.527 °C	0.2 °C (Absolute)	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry	2011-09-23	NSC IM/16
55		EURAMET-T-UA-000000TZ-1	Temperature	Thermocouple (type B)	Aluminium fixed point	Temperature-controlled furnace : 3-zone	660.323 °C	0.4 °C (Absolute)		2016-11-15	NSC IM/T
56		EURAMET-T-UA-000000OU-1	Temperature	Digital thermometer thermocouple	Calibration at gallium fixed point	Temperature-controlled furnace : 1-zone	29.7646 °C	0.4 °C (Absolute)	Uncertainty at the calibration point. Pre-determined value of inhomogeneity included in the CMC entry	2011-09-23	NSC IM/17
57		EURAMET-T-UA-000000OU1-1	Temperature	Thermocouple (type B)	Copper fixed point	Temperature-controlled furnace : 3-zone	1084.62 °C	0.6 °C (Absolute)		2016-11-15	NSC IM/T
58		EURAMET-T-UA-000000OU2-1	Temperature	Digital thermometer thermocouple	Calibration at indium fixed point	Temperature-controlled furnace : 1-zone	156.5985 °C	0.4 °C (Absolute)	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry	2011-09-23	NSC IM/18
59		EURAMET-T-UA-000000OU3-1	Temperature	Thermocouple (type B)	Calibration at fixed points	Al, Cu : 3-zone	[660.323 , 1084.62] °C	0.6 °C (Absolute)		2016-11-15	NSC IM/T
60		EURAMET-T-UA-000000OU4-1	Temperature	Digital thermometer thermocouple	Calibration at tin fixed point	Temperature-controlled furnace : 3-zone	231.928 °C	0.4 °C (Absolute)	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry	2011-09-23	NSC IM/19
61		EURAMET-T-UA-000000OU5-1	Temperature	Thermocouple (type Pt/Pd)	Aluminium fixed point	Temperature-controlled furnace : 3-zone	660.323 °C	0.3 °C (Absolute)		2016-11-15	NSC IM/T
62		EURAMET-T-UA-000000OU6-1	Temperature	Digital thermometer thermocouple	Calibration at zinc fixed point	Temperature-controlled furnace : 3-zone	419.527 °C	0.4 °C (Absolute)	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry	2011-09-23	NSC IM/20
63		EURAMET-T-UA-000000OU7-1	Temperature	Thermocouple (type Pt/Pd)	Copper fixed point	Temperature-controlled furnace : 3-zone	1084.62 °C	0.4 °C (Absolute)		2016-11-15	NSC IM/T
64		EURAMET-T-UA-000000OU8-1	Temperature	Digital thermometer IRPT	Calibration at gallium fixed point	Temperature-controlled furnace : 1-zone	29.7646 °C	0.4 °C (Absolute)	Uncertainty at the calibration point. Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the calibration report	2011-09-23	NSC IM/21

65	DETU 06-07-04	9	EURAMET-T-UA-00000OTF-1	Temperature	Fixed-point blackbody (Zn)	Comparison using radiation thermometer and standard fixed-point (Zn) blackbody	Wavelength : 1.0 µm Aperture diameter : > or = 5 mm	419.527 °C	0.5 °C (Absolute)		2014-06-20	NSC IM/NIL-11-51
66			EURAMET-T-UA-00000OTG-1	Temperature	Variable temperature blackbody	Comparison using radiation thermometer and standard fixed-point (Zn) blackbody	Wavelength : 1.0 µm Aperture diameter : > or = 5 mm	419.527 °C	0.6 °C (Absolute)		2014-06-20	NSC IM/NIL-11-52
67			EURAMET-T-UA-00000OTH-1	Temperature	Variable temperature blackbody	Comparison using radiation thermometer and standard variable temperature blackbody	Wavelength : 8 µm to 14 µm Aperture diameter : > or = 30 mm	[0.0 , 40.0] °C	0.6 °C (Absolute)		2014-06-20	NSC IM/NIL-11-53
68			EURAMET-T-UA-00000OTI-1	Temperature	Variable temperature blackbody	Comparison using radiation thermometer and standard variable temperature blackbody	Wavelength : 8 µm to 14 µm Aperture diameter : > or = 30 mm	[40.0 , 200.0] °C	0.6 °C (Absolute)		2014-06-20	NSC IM/NIL-11-54
69			EURAMET-T-UA-00000OTK-1	Temperature	Variable temperature blackbody	Comparison using radiation thermometer and standard variable temperature blackbody	Wavelength : 3.9 µm Aperture diameter : > or = 10 mm	[200.0 , 420.0] °C	[0.6 , 0.8] °C (Absolute)		2014-06-20	NSC IM/NIL-11-55
70			EURAMET-T-UA-00000OTM-1	Temperature	Radiation thermometer	Calibration against standard fixed-point (Zn) blackbody	Wavelength : 1.0 µm Target diameter : < or = 5 mm	419.527 °C	0.6 °C (Absolute)		2014-06-20	NSC IM/NIL-11-56
71			EURAMET-T-UA-00000OTO-1	Temperature	Radiation thermometer	Calibration against standard variable temperature blackbody	Wavelength : 8 µm to 14 µm Target diameter : < or = 30 mm	[0.0 , 40.0] °C	0.6 °C (Absolute)		2014-06-20	NSC IM/NIL-11-57
72			EURAMET-T-UA-00000OTQ-1	Temperature	Radiation thermometer	Calibration against standard variable temperature blackbody	Wavelength : 8 µm to 14 µm Target diameter : < or = 30 mm	[40.0 , 200.0] °C	0.6 °C (Absolute)		2014-06-20	NSC IM/NIL-11-58
73			EURAMET-T-UA-00000OTS-1	Temperature	Radiation thermometer	Calibration against standard variable temperature blackbody	Wavelength : 3.9 µm Target diameter : < or = 10 mm	[200.0 , 420.0] °C	[0.6 , 0.8] °C (Absolute)		2014-06-20	NSC IM/NIL-11-59