

**Amount of substance, pH, Slovakia (Slovak Republic), SMU (Slovensky Metrologicki Ustav)**

In the case where an uncertainty range is given, the expanded uncertainty range is expressed as the uncertainty of the smallest value of the quantity to the uncertainty of the largest value of the quantity.

The expanded uncertainties correspond to  $k = 2$  (level of confidence 95%)

NMI Service Identifier	Measurement Service Category	Matrix	Quantity	Dissemination Range of Measurement Capability		Range of Expanded Uncertainties as Disseminated			Range of Certified Values in Reference Materials		Range of Expanded Uncertainties for Certified Value			Mechanism(s) for Measurement Service Delivery	Comments
				From	To	From	To	Is the expanded uncertainty a relative one?	From	To	From	To	Is the expanded uncertainty a relative one?		
E10	pH	aqueous pH buffer solution	pH	1.5	1.9	0.002	0.003	No	1.5	1.9	0.005	0.005	No	SMU CRM E10	Declared uncertainties do not include the uncertainty contribution due to the Bates-Guggenheim convention. Measurement temperature 10 °C to 50 °C, data given for 25 °C Approved on 06 December 2011
E11	pH	aqueous pH buffer solution	pH	3.8	4.2	0.002	0.003	No	3.8	4.2	0.005	0.005	No	SMU CRM E11	Declared uncertainties do not include the uncertainty contribution due to the Bates-Guggenheim convention. Measurement temperature 10 °C to 50 °C, data given for 25 °C Approved on 06 December 2011
E12	pH	aqueous pH buffer solution	pH	6.8	7.2	0.002	0.003	No	6.8	7.2	0.005	0.005	No	SMU CRM E12	Declared uncertainties do not include the uncertainty contribution due to the Bates-Guggenheim convention. Measurement temperature 10 °C to 50 °C, data given for 25 °C Approved on 06 December 2011
E13	pH	aqueous pH buffer solution	pH	9.0	9.4	0.002	0.003	No	9.0	9.4	0.005	0.005	No	SMU CRM E13	Declared uncertainties do not include the uncertainty contribution due to the Bates-Guggenheim convention. Measurement temperature 10 °C to 50 °C, data given for 25 °C Approved on 06 December 2011

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				From	To	From	To	Is the expanded uncertainty a relative one?	From	To	From	To	Is the expanded uncertainty a relative one?		
E14	pH	aqueous pH buffer solution	pH	9.8	10.2	0.002	0.004	No	9.8	10.2	0.005	0.005	No	SMU CRM E14	Declared uncertainties do not include the uncertainty contribution due to the Bates-Guggenheim convention. Measurement temperature 10 °C to 50 °C, data given for 25 °C Approved on 06 December 2011

**Amount of substance, Electrolytic conductivity, Slovakia (Slovak Republic), SMU (Slovensky Metrologicki Ustav)**

The expanded uncertainty ranges given in the following CMCs are expressed according to two conventions.

For 'Uncertainty convention 1', the expanded uncertainty range spans from the smallest numerical value of the uncertainty to the largest numerical value of the uncertainty found within the quantity range.

For 'Uncertainty convention 2', the expanded uncertainty range is expressed as the uncertainty of the smallest value of the quantity to the uncertainty of the largest value of the quantity.

The expanded uncertainties correspond to  $k = 2$  (level of confidence 95%)

NMI Service Identifier	Measurement Service Category	Matrix	Quantity	Dissemination Range of Measurement Capability			Range of Expanded Uncertainties as Disseminated				Range of Certified Values in Reference Materials			Range of Expanded Uncertainties for Certified Value				Mechanism(s) for Measurement Service Delivery	Comments
				From	To	Unit	From	To	Unit	Is the expanded uncertainty a relative one?	From	To	Unit	From	To	Unit	Is the expanded uncertainty a relative one?		
F01-F07	Electrolytic conductivity	aqueous solution	Electrolytic conductivity	0.1	11	S/m	0.05	0.09	%	Yes	0.099	10.1	S/m	0.10	0.10	%	Yes	CRM F01, CRM F02, CRM F03, CRM F04, CRM F05, CRM F06, CRM F07	Measurement temperature from 20 °C to 30 °C. Data given for 25 °C Approved on 06 December 2011 Uncertainty convention 1
F08-F10	Electrolytic conductivity	aqueous solution	Electrolytic conductivity	0.005	0.1	S/m	0.15	0.09	%	Yes	0.0099	0.0505	S/m	0.20	0.20	%	Yes	CRM F08, CRM F09, CRM F10	Measurement temperature from 20 °C to 30 °C. Data given for 25 °C Approved on 06 December 2011 Uncertainty convention 2