

**Amount of substance, Inorganic solutions, Slovakia, SMU (Slovensky Metrologicky Ustav)**

Note: 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 Sub-Category	Matrix	Measurand		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
			Analyte or Component	Quantity	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?		
I-06a	Other than elemental and anionic solutions	aqueous solution of Cr(VI)	oxidants expressed as Cr(VI)	Amount-of-substance content	0.01	1.5	mol/kg	0.02	0.005	%	Yes								Calibration	Oxidimetric value including contributions from trace impurities
I-07a	Other than elemental and anionic solutions	aqueous solution of As(III)	reductants expressed as As(III)	Amount-of-substance content	0.01	1	mol/kg	0.01	0.004	%	Yes								Calibration	Reductometric value including contributions from trace impurities
I-08a	Other than elemental and anionic solutions	aqueous solution of pure chlorides	total halides (except F) expressed as chloride	Amount-of-substance content	0.01	5	mol/kg	0.04	0.012	%	Yes								Calibration	
I-09a	Other than elemental and anionic solutions	aqueous solution of hydrochloric acid	total acid expressed as hydrochloric acid	Amount-of-substance content	0.01	2	mol/kg	0.03	0.004	%	Yes								Calibration	
I-09b	Inorganic solutions	aqueous solution of sulfuric acid	total acid expressed as sulfuric acid	Amount-of-substance content	0.01	2	mol/kg	0.03	0.004	%	Yes								Calibration	
I-10-1	Elemental solutions	mono-elemental solution	aluminium	Mass concentration	0.5	10	g/L	0.1	0.06	%	Yes	0.98	1.01	g/L	0.19	0.19	%	Yes	CRM B02	Approved on 19 July 2010
I-10-2	Elemental solutions	mono-elemental solution	bismuth	Mass concentration	0.5	10	g/L	0.2	0.1	%	Yes	0.98	1.01	g/L	0.2	0.2	%	Yes	CRM B06	
I-10-3	Elemental solutions	mono-elemental solution	calcium	Mass concentration	0.5	10	g/L	0.1	0.06	%	Yes	0.98	1.01	g/L	0.19	0.19	%	Yes	CRM B07	Approved on 19 July 2010
I-10-4	Elemental solutions	mono-elemental solution	cadmium	Mass concentration	0.5	10	g/L	0.2	0.1	%	Yes	0.98	1.01	g/L	0.2	0.2	%	Yes	CRM B08	
I-10-5	Elemental solutions	mono-elemental solution	cobalt	Mass concentration	0.5	10	g/L	0.1	0.06	%	Yes	0.98	1.01	g/L	0.19	0.19	%	Yes	CRM B09	Approved on 19 July 2010
I-10-6	Elemental solutions	mono-elemental solution	copper	Mass concentration	0.5	10	g/L	0.1	0.06	%	Yes	0.98	1.01	g/L	0.19	0.19	%	Yes	CRM B12	Approved on 19 July 2010

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			Analyte or Component	Quantity	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?		
I-10-7	Elemental solutions	mono-elemental solution	iron	Mass concentration	0.5	10	g/L	0.1	0.06	%	Yes	0.98	1.01	g/L	0.19	0.19	%	Yes	CRM B13	Approved on 19 July 2010
I-10-8	Elemental solutions	mono-elemental solution	lead	Mass concentration	0.5	10	g/L	0.1	0.06	%	Yes	0.98	1.01	g/L	0.19	0.19	%	Yes	CRM B26	Approved on 19 July 2010
I-10-9	Elemental solutions	mono-elemental solution	mercury	Mass concentration	0.5	10	g/L	0.2	0.1	%	Yes	0.98	1.01	g/L	0.2	0.2	%	Yes	CRM B15	
I-10-10	Elemental solutions	mono-elemental solution	magnesium	Mass concentration	0.5	10	g/L	0.1	0.06	%	Yes	0.98	1.01	g/L	0.19	0.19	%	Yes	CRM B20	Approved on 19 July 2010
I-10-11	Elemental solutions	mono-elemental solution	manganese	Mass concentration	0.5	10	g/L	0.2	0.1	%	Yes	0.98	1.01	g/L	0.2	0.2	%	Yes	CRM B21	
I-10-12	Elemental solutions	mono-elemental solution	nickel	Mass concentration	0.5	10	g/L	0.1	0.06	%	Yes	0.98	1.01	g/L	0.19	0.19	%	Yes	CRM B24	Approved on 19 July 2010
I-10-13	Elemental solutions	mono-elemental solution	strontium	Mass concentration	0.5	10	g/L	0.1	0.06	%	Yes	0.98	1.01	g/L	0.20	0.20	%	Yes	CRM B32	Approved on 19 July 2010
I-10-14	Elemental solutions	mono-elemental solution	zinc	Mass concentration	0.5	10	g/L	0.1	0.06	%	Yes	0.98	1.01	g/L	0.19	0.19	%	Yes	CRM B37	Approved on 19 July 2010
I-10-15	Elemental solutions	mono-elemental solution	arsenic	Mass concentration	0.5	10	g/L	0.2	0.1	%	Yes	0.98	1.01	g/L	0.25	0.25	%	Yes	CRM B03	Approved on 19 July 2010
I-10-16	Elemental solutions	mono-elemental solution	silver	Mass concentration	0.5	10	g/L	0.08	0.08	%	Yes	0.98	1.01	g/L	0.18	0.18	%	Yes	CRM B01	Approved on 19 July 2010
I-10-17	Elemental solutions	mono-elemental solution	chromium	Mass concentration	0.9	10	g/L	0.14	0.1	%	Yes	0.98	1.01	g/L	0.22	0.22	%	Yes	CRM B10	Approved on 19 July 2010
I-10-18	Elemental solutions	mono-elemental solution	tin	Mass concentration	0.9	10	g/L	0.17	0.1	%	Yes	0.98	1.01	g/L	0.24	0.24	%	Yes	CRM B31	Approved on 19 July 2010
I-10-19	Elemental solutions	mono-elemental solution	thallium	Mass concentration	0.9	10	g/L	0.19	0.1	%	Yes	0.98	1.01	g/L	0.25	0.25	%	Yes	CRM B35	Approved on 19 July 2010

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I-10-20	Elemental solutions	mono-elemental solution	boron	Mass concentration	0.5	10	g/L	0.2	0.1	%	Yes	0.98	1.01	g/L	0.2	0.2	%	Yes	CRM B04	
I-10-21	Elemental solutions	mono-elemental solution	phosphorus	Mass concentration	0.5	10	g/L	0.2	0.1	%	Yes	0.98	1.01	g/L	0.2	0.2	%	Yes	CRM B25	
I-10-22	Elemental solutions	mono-elemental solution	vanadium	Mass concentration	0.5	10	g/L	0.15	0.1	%	Yes	0.99	1.02	g/L	0.28	0.28	%	Yes	CRM B36	Approved on 19 July 2010
I-10-23	Elemental solutions	mono-elemental solution	barium	Mass concentration	0.9	10	g/L	0.13	0.1	%	Yes	0.102	1.05	g/L	0.21	0.21	%	Yes	CRM B05	Approved on 19 July 2010
I-50-0	Anionic solutions	water	chloride	Mass concentration	0.9	2	g/L	0.05	0.04	%	Yes	0.95	1.05	g/L	0.18	0.18	%	Yes	CRM B50	Approved on 24 June 2008
I-50-1	Anionic solutions	water	phosphate	Mass concentration	0.9	2	g/L	0.12	0.1	%	Yes	0.95	1.05	g/L	0.28	0.28	%	Yes	CRM B51	Approved on 24 June 2008
I-50-2	Anionic solutions	water	sulfate	Mass concentration	0.9	2	g/L	0.08	0.06	%	Yes	0.95	1.05	g/L	0.19	0.19	%	Yes	CRM B52	Approved on 24 June 2008
I-50-3	Anionic solutions	water	nitrate	Mass concentration	0.9	2	g/L	0.09	0.07	%	Yes	0.95	1.05	g/L	0.19	0.19	%	Yes	CRM B53	Approved on 19 July 2010
I-50-4	Anionic solutions	water	nitrite	Mass concentration	0.9	2	g/L	0.16	0.13	%	Yes	0.95	1.05	g/L	0.23	0.23	%	Yes	CRM B54	Approved on 19 July 2010