

Amount of substance, Inorganic solutions, Russian Federation, VNIIM (All-Russian D.I. Mendeleev Research Institute for Metrology, Rosstandart)



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.

NMI Service Identifier	Measurement Service 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?		
2.1-03	Elemental	aqueous solution	chromium	Mass fraction	0.48	1.05	g/kg	1.3	1.3	%	Yes	0.48	1.05	g/kg	1.3	1.3	%	Yes	PRM SM 07.01.003	Approved on 27 March 2013
2.1-04	Elemental	aqueous solution	nickel	Mass fraction	0.48	1.05	g/kg	1.2	1.2	%	Yes	0.48	1.05	g/kg	1.2	1.2	%	Yes	PRM SM 07.01.004	Approved on 27 March 2013
2.1-05	Elemental	aqueous solution	manganese	Mass fraction	0.48	1.05	g/kg	1.2	1.2	%	Yes	0.48	1.05	g/kg	1.2	1.2	%	Yes	PRM SM 07.01.005	Approved on 27 March 2013
2.1-06	Elemental	aqueous solution	copper	Mass fraction	0.48	1.05	g/kg	1	1	%	Yes	0.48	1.05	g/kg	1	1	%	Yes	PRM SM 07.01.006	Approved on 27 March 2013
2.1-07	Elemental	aqueous solution	magnesium	Mass fraction	0.48	1.05	g/kg	1	1	%	Yes	0.48	1.05	g/kg	1	1	%	Yes	PRM SM 07.01.007	Approved on 27 March 2013
2.1-08	Elemental	aqueous solution	zinc	Mass fraction	0.48	1.05	g/kg	1.2	1.2	%	Yes	0.48	1.05	g/kg	1.2	1.2	%	Yes	PRM SM 07.01.008	Approved on 27 March 2013
2.1-09	Elemental	aqueous solution	lead	Mass fraction	0.48	1.05	g/kg	2.6	2.6	%	Yes	0.48	1.05	g/kg	2.6	2.6	%	Yes	PRM SM 07.01.009	Approved on 27 March 2013
2.1-10	Elemental	aqueous solution	cobalt	Mass fraction	0.48	1.05	g/kg	2.2	2.2	%	Yes	0.48	1.05	g/kg	2.2	2.2	%	Yes	PRM SM 07.01.010	Approved on 27 March 2013
2.1-12	Elemental	aqueous solution	iron (III)	Mass fraction	0.95	10.5	g/kg	1	1	%	Yes	0.95	10.50	g/kg	1	1	%	Yes	PRM SM 07.01.012	Approved on 27 March 2013
2.1-13	Elemental	aqueous solution	cadmium	Mass fraction	0.48	1.05	g/kg	1	1	%	Yes	0.48	1.05	g/kg	1	1	%	Yes	PRM SM 07.01.013	Approved on 27 March 2013
2.1-14	Elemental	aqueous solution	ammonium	Mass fraction	0.48	1.05	g/kg	2	2	%	Yes	0.48	1.05	g/kg	2	2	%	Yes	PRM SM 07.01.014	Approved on 27 March 2013
2.1-15	Elemental	aqueous solution	aluminium	Mass fraction	0.48	1.05	g/kg	1	1	%	Yes	0.48	1.05	g/kg	1	1	%	Yes	PRM SM 07.01.015	Approved on 27 March 2013
2.1-17	Elemental	aqueous solution	calcium	Mass fraction	0.95	1.05	g/kg	1.2	1.2	%	Yes	0.95	1.05	g/kg	1.2	1.2	%	Yes	PRM SM 07.01.017	Approved on 27 March 2013
2.2-18	Anionic	aqueous solution	nitrite	Mass fraction	0.5	10	g/kg	2.0	2.0	%	Yes	0.95	1.05	g/kg	2	2	%	Yes	Calibration plus SM 07.02.002	Approved on 27 March 2013
2.2-19	Anionic	aqueous solution	nitrate	Mass fraction	0.5	10	g/kg	2.0	2.0	%	Yes	0.95	1.05	g/kg	3	2	%	Yes	Calibration plus SM 07.02.001	Approved on 27 March 2013

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