

Drinking water - Certified Reference Material for trace metals and other constituents

Art. ID	NRC-CRM-AQUA-1
Unit	200 mL
Deliverydetails	No Dangerous Good /not restricted

Description

Instrumental method of analyte determination: a - Isotope dilution inductively-coupled plasma mass spectrometry (ID-ICP-MS) /// b - Standard addition inductively-coupled plasma mass spectrometry (SA-ICP-MS) /// c - Inductively-coupled plasma mass spectrometry (ICP-MS) /// d - Standard addition inductively-coupled plasma atomic emission spectroscopy (SA-ICP-AES) /// e - Hydride generation ICP-MS ///

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified value	Aluminium (Al)	[7429-90-5]	54,6 ± 1,6	µg/kg	(b,c,d)	
Certified value	Antimony (Sb)	[7440-36-0]	0,0683 ± 0,0056	µg/kg	(a,b)	
Certified value	Arsenic (As)	[7440-38-2]	0,222 ± 0,014	µg/kg	(b,c)	
Certified value	Barium (Ba)	[7440-39-3]	11,88 ± 0,36	µg/kg	(a,b,c,d)	
Certified value	Cadmium (Cd)	[7440-43-9]	0,0044 ± 0,0014	µg/kg	(a,b)	
Certified value	Calcium (Ca)	[7440-70-2]	8250 ± 140	µg/kg	(c,d)	
Certified value	Chromium (Cr)	[7440-47-3]	0,087 ± 0,008	µg/kg	(a,b,c)	
Certified value	Cobalt (Co)	[7440-48-4]	0,0271 ± 0,0028	µg/kg	(b,c)	
Certified value	Copper (Cu)	[7440-50-8]	7,46 ± 0,12	µg/kg	(a,b,c,d)	
Certified value	Iron (Fe)	[7439-89-6]	38,0 ± 1,2	µg/kg	(a,b,c,d)	
Certified value	Lead (Pb)	[7439-92-1]	1,365 ± 0,034	µg/kg	(a,b,c)	
Certified value	Magnesium (Mg)	[7439-95-4]	1945 ± 40	µg/kg	(a,c,d)	
Certified value	Manganese (Mn)	[7439-96-5]	2,42 ± 0,08	µg/kg	(b,c,d)	
Certified value	Molybdenum (Mo)	[7439-98-7]	0,189 ± 0,008	µg/kg	(a,b)	
Certified value	Nickel (Ni)	[7440-02-0]	0,447 ± 0,030	µg/kg	(a,b,c,d)	
Certified value	Potassium (K)	[7440-09-7]	670 ± 10	µg/kg	(b,c,d)	
Certified value	Sodium (Na)	[7440-23-5]	13 730 ± 340	µg/kg	(b,c,d)	
Certified value	Strontium (Sr)	[7440-24-6]	36,05 ± 0,48	µg/kg	(a,b,c,d)	
Certified value	Uranium (U)	[7440-61-1]	0,006 96 ± 0,000 52	µg/kg	(a,b)	
Certified value	Vanadium (V)	[7440-62-2]	0,152 ± 0,008	µg/kg	(a,b,c)	
Certified value	Zinc (Zn)	[7440-66-6]	0,97 ± 0,08	µg/kg	(a,b,c)	
Information value	Inorganic arsenic (iAs)		0,124	µg/kg	(e)	
Information value	Monomethylarsenic (as As)		0,036	µg/kg	(e)	
Information value	Dimethylarsenic (as As)		0,028	µg/kg	(e)	
Information value	Trimethylarsenic (as As)		0,01	µg/kg	(e)	

Certified value	Aluminium (Al)	[7429-90-5]	54,6 ± 1,6	µg/L	(b,c,d)
Certified value	Antimony (Sb)	[7440-36-0]	0,0682 ± 0,0056	µg/L	(a,b)
Certified value	Arsenic (As)	[7440-38-2]	0,222 ± 0,014	µg/L	(b,c)
Certified value	Barium (Ba)	[7440-39-3]	11,87 ± 0,36	µg/L	(a,b,c,d)
Certified value	Cadmium (Cd)	[7440-43-9]	0,0043 ± 0,0014	µg/L	(a,b)
Certified value	Calcium (Ca)	[7440-70-2]	8240 ± 140	µg/L	(c,d)
Certified value	Chromium (Cr)	[7440-47-3]	0,087 ± 0,008	µg/L	(a,b,c)
Certified value	Cobalt (Co)	[7440-48-4]	0,0271 ± 0,0028	µg/L	(b,c)
Certified value	Copper (Cu)	[7440-50-8]	7,46 ± 0,12	µg/L	(a,b,c,d)
Certified value	Iron (Fe)	[7439-89-6]	38,0 ± 1,2	µg/L	(a,b,c,d)
Certified value	Lead (Pb)	[7439-92-1]	1,364 ± 0,034	µg/L	(a,b,c)
Certified value	Magnesium (Mg)	[7439-95-4]	1944 ± 40	µg/L	(a,c,d)
Certified value	Manganese (Mn)	[7439-96-5]	2,42 ± 0,08	µg/L	(b,c,d)
Certified value	Molybdenum (Mo)	[7439-98-7]	0,189 ± 0,008	µg/L	(a,b)
Certified value	Nickel (Ni)	[7440-02-0]	0,447 ± 0,030	µg/L	(a,b,c,d)
Certified value	Potassium (K)	[7440-09-7]	670 ± 10	µg/L	(b,c,d)
Certified value	Sodium (Na)	[7440-23-5]	13 710 ± 340	µg/L	(b,c,d)
Certified value	Strontium (Sr)	[7440-24-6]	36,02 ± 0,48	µg/L	(a,b,c,d)
Certified value	Uranium (U)	[7440-61-1]	0,00695 ± 0,00052	µg/L	(a,b)
Certified value	Vanadium (V)	[7440-62-2]	0,152 ± 0,008	µg/L	(a,b,c)
Certified value	Zinc (Zn)	[7440-66-6]	0,97 ± 0,08	µg/L	(a,b,c)
Information value	Inorganic arsenic (iAs)		0,124	µg/L	(e)
Information value	Monomethylarsenic (as As)		0,036	µg/L	(e)
Information value	Dimethylarsenic (as As)		0,028	µg/L	(e)
Information value	Trimethylarsenic (as As)		0,01	µg/L	(e)