

Seawater - Trace metals (elements)

Art. ID	NRC-NASS-7
Unit	200 mL
Deliverydetails	No Dangerous Good /not restricted

Description

This certified reference material is primarily intended for use in the calibration of procedures and the development of methods used for the analysis of seawater for trace metals. Certified values

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified value	Boron (B)	[7440-42-8]	3670 ± 120	µg/kg		
Certified value	Cadmium (Cd)	[7440-43-9]	0,0157 ± 0,0016	µg/kg		
Certified value	Cobalt (Co)	[7440-48-4]	0,0143 ± 0,0014	µg/kg		
Certified value	Copper (Cu)	[7440-50-8]	0,195 ± 0,014	µg/kg		
Certified value	Iron (Fe)	[7439-89-6]	0,344 ± 0,026	µg/kg		
Certified value	Manganese (Mn)	[7439-96-5]	0,74 ± 0,06	µg/kg		
Certified value	Molybdenum (Mo)	[7439-98-7]	9,10 ± 0,40	µg/kg		
Certified value	Nickel (Ni)	[7440-02-0]	0,243 ± 0,018	µg/kg		
Certified value	Lead (Pb)	[7439-92-1]	0,0025 ± 0,0008	µg/kg		
Certified value	Uranium (U)	[7440-61-1]	2,81 ± 0,16	µg/kg		
Certified value	Zinc (Zn)	[7440-66-6]	0,41 ± 0,08	µg/kg		
Certified value	Boron (B)	[7440-42-8]	3750 ± 120	µg/L		
Certified value	Cadmium (Cd)	[7440-43-9]	0,0161 ± 0,0016	µg/L		
Certified value	Cobalt (Co)	[7440-48-4]	0,0146 ± 0,0014	µg/L		
Certified value	Copper (Cu)	[7440-50-8]	0,199 ± 0,014	µg/L		
Certified value	Iron (Fe)	[7439-89-6]	0,351 ± 0,026	µg/L		
Certified value	Manganese (Mn)	[7439-96-5]	0,75 ± 0,06	µg/L		
Certified value	Molybdenum (Mo)	[7439-98-7]	9,29 ± 0,40	µg/L		
Certified value	Nickel (Ni)	[7440-02-0]	0,248 ± 0,018	µg/L		
Certified value	Lead (Pb)	[7439-92-1]	0,0026 ± 0,0008	µg/L		
Certified value	Uranium (U)	[7440-61-1]	2,87 ± 0,16	µg/L		
Certified value	Zinc (Zn)	[7440-66-6]	0,42 ± 0,08	µg/L		
Reference value	Arsenic (As)	[7440-38-2]	1,23 ± 0,06	µg/kg		
Reference value	Chromium (Cr)	[7440-47-3]	0,105 ± 0,016	µg/kg		
Reference value	Vanadium (V)	[7440-62-2]	1,27 ± 0,08	µg/kg		
Reference value	Arsenic (As)	[7440-38-2]	1,26 ± 0,06	µg/L		
Reference value	Chromium (Cr)	[7440-47-3]	0,107 ± 0,016	µg/L		
Reference value	Vanadium (V)	[7440-62-2]	1,30 ± 0,08	µg/L		
Information value	Lanthanum (La)	[7439-91-0]	0,006	µg/kg		

Information value	Cerium (Ce)	[7440-45-1]	0,003	µg/kg
Information value	Praseodymium (Pr)	[7440-10-0]	0,002	µg/kg
Information value	Neodymium (Nd)	[7440-00-8]	0,003	µg/kg
Information value	Samarium (Sm)	[7440-19-9]	0,002	µg/kg
Information value	Europium (Eu)	[7440-53-1]	0,0006	µg/kg
Information value	Gadolinium (Gd)	[7440-54-2]	0,0014	µg/kg
Information value	Terbium (Tb)	[7440-27-9]	0,0003	µg/kg
Information value	Dysprosium (Dy)	[7429-91-6]	0,0013	µg/kg
Information value	Holmium (Ho)	[7440-60-0]	0,001	µg/kg
Information value	Erbium (Er)	[7440-52-0]	0,0012	µg/kg
Information value	Thulium (Tm)	[7440-30-4]	0,000 11	µg/kg
Information value	Ytterbium (Yb)	[7440-64-4]	0,001	µg/kg
Information value	Lutetium (Lu)	[7439-94-3]	0,0002	µg/kg
Information value	Lanthanum (La)	[7439-91-0]	0,006	µg/L
Information value	Cerium (Ce)	[7440-45-1]	0,003	µg/L
Information value	Praseodymium (Pr)	[7440-10-0]	0,002	µg/L
Information value	Neodymium (Nd)	[7440-00-8]	0,003	µg/L
Information value	Samarium (Sm)	[7440-19-9]	0,002	µg/L
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Information value	Thulium (Tm)	[7440-30-4]	0,000 11	µg/L
Information value	Ytterbium (Yb)	[7440-64-4]	0,001	µg/L
Information value	Lutetium (Lu)	[7439-94-3]	0,0002	µg/L
Information value	Monomethylarsenic (as As)		0,018	µg/kg
Information value	Dimethylarsenic (as As)		0,19	µg/kg
Information value	Trimethylarsenic (as As)		0,013	µg/kg
Information value	Monomethylarsenic (as As)		0,019	µg/L
Information value	Dimethylarsenic (as As)		0,19	µg/L
Information value	Trimethylarsenic (as As)		0,013	µg/L