

Trace Metals in Drinking Water Standards

Catalog No.	Element	Conc.	Element	Conc.	Element	Conc.	Matrix	Volume		
CRM-TMDW	Al	120 µg/L	Cu	20 µg/L	Se	10 µg/L	2% HNO ₃ + Tr HF	100 mL		
	Sb	10	Fe	100	Ag	2		250 mL		
	As	80	Pb	40	Na	6000		500 mL		
	Ba	50	Li	20	Sr	250				
	Be	20	Mg	9000	Te	3				
	Bi	10	Mn	40	Tl	10				
	Cd	10	Mo	100	V	30				
	Ca	35,000	Ni	60	U	10				
	Cr	20	K	2500	Zn	70				
	Co	25	Rb	10						
	CRM-TMDW-A	Al	125 µg/L	Co	25 µg/L	K		2500 µg/L	2% HNO ₃ + Tr HF	100 mL
		Sb	55	Cu	20	Se		11		250 mL
		As	55	Fe	90	Ag		2		500 mL
Ba		500	Pb	20	Na	2300				
Be		15	Li	15	Sr	300				
B		150	Mg	8000	Tl	10				
Cd		10	Mn	40	V	35				
Ca		31,000	Mo	110	Zn	75				
Cr		20	Ni	60						
CRM-TMDW-B		Al	125 µg/L	Co	25 µg/L	K	2500 µg/L	2% HNO ₃ + Tr HF		100 mL
		Sb	55	Cu	20	Se	11			250 mL
		As	10	Fe	90	Ag	2			500 mL
		Ba	500	Pb	20	Na	22,000			
	Be	15	Li	15	Sr	300				
	B	150	Mg	8000	Tl	10				
	Cd	10	Mn	40	V	35				
	Ca	31,000	Mo	110	Zn	75				
	Cr	20	Ni	60						

Primary Drinking Water Metals

Catalog No.	Element	Conc.	Element	Conc.	Matrix	Volume
DWPS	As	100 µg/mL	Pb	100 µg/mL	*Solution B	100 mL
	Ba	50	Hg*	20		250 mL
	Cd	50	Se	50		500 mL
	Cr	100	Ag	10		

Secondary Drinking Water Metals

Catalog No.	Element	Conc.	Element	Conc.	Matrix	Volume
DWSS	Cu	50 µg/mL	Mn	50 µg/mL	2% HNO ₃	100 mL
	Fe	100	Zn	50		250 mL
						500 mL

Certified Wastewater - Trace Metals Solutions

HPS is offering a series of certified reference solutions which simulate the concentrations found of a variety of materials. These solutions, which are directly traceable to NIST, may be used in laboratory performance evaluation, quality control, and method development. All of the following solutions are certified to $\pm 0.5\%$ and are ideally suited for AAS, ICP, and ICP-MS.

Listed below are the concentrations that will be found when each 10 mL sample is diluted to **one liter**.

Catalog No.	CWW-TM-A	CWW-TM-B	CWW-TM-C	CWW-TM-D	CWW-TM-E	CWW-TM-F	CWW-TM-G	CWW-TM-H
Matrix	10% HNO ₃ + Tr HF µg/mL	10% HNO ₃ + Tr HF µg/mL	10% HNO ₃ + Tr HF µg/mL	10% HNO ₃ + Tr HF µg/mL	10% HNO ₃ + Tr HF µg/mL	10% HNO ₃ + Tr HF µg/mL	10% HNO ₃ + Tr HF µg/mL	10% HNO ₃ + Tr HF µg/mL
Elements								
Aluminum	0.050	0.200	0.500	1	0.025	0.025	1	0.100
Antimony	0.010	0.050	0.150	0.250	0.005	0.250	0.005	0.200
Arsenic	0.010	0.050	0.150	0.250	0.005	0.005	0.250	0.100
Barium	0.050	0.200	0.500	1	0.025	1	0.025	0.100
Beryllium	0.010	0.050	0.150	0.250	0.005	0.005	0.250	0.020
Boron	0.050	0.200	0.500	1	0.025	1	0.025	0.250
Cadmium	0.010	0.050	0.150	0.250	0.025	0.005	0.250	0.100
Chromium	0.050	0.200	0.500	1	0.025	1	0.025	0.500
Cobalt	0.050	0.200	0.500	1	0.025	0.025	1	0.500
Copper	0.050	0.200	0.500	1	0.025	1	0.025	0.500
Iron	0.050	0.200	0.500	1	0.025	0.025	1	0.250
Lead	0.050	0.200	0.500	1	0.025	1	0.025	0.500
Manganese	0.050	0.200	0.500	1	0.025	0.025	1	0.100
Mercury*	0.001	0.005	0.010	0.02	0.001	0.020	0.005	0.0010
Molybdenum	0.050	0.200	0.500	1	0.025	0.025	1	0.100
Nickel	0.050	0.200	0.500	1	0.025	1	0.250	0.500
Selenium	0.010	0.050	0.150	0.250	0.005	0.005	0.250	0.050
Silver	0.010	0.050	0.150	0.250	0.005	0.250	0.005	0.020
Strontium	0.050	0.200	0.500	1	0.025	0.025	1	0.100
Thallium	0.010	0.050	0.150	0.250	0.005	0.025	0.005	0.250
Vanadium	0.050	0.200	0.500	1	0.025	0.025	1	0.500
Zinc	0.050	0.200	0.500	1	0.025	1	0.025	0.500
Volume	10 mL	10 mL	10 mL	10 mL	10 mL	10 mL	10 mL	10 mL

***The concentration of Mercury cannot be guaranteed for any extended period of time due to the nature of the element.**

Any of our wastewater standards can be modified to meet your needs.