

لیست پارامترهای قابل اندازه گیری با PWA-4000

No	Parameter	Measuring Range (mg/L)	Method	کیت ساخته شده	کالیبره شده
1	Aluminum	0.008 to 0.800 mg/L	Aluminon Method		
2	Aluminum	0.002 to 0.250 mg/L Al ³⁺	Eriochrome Cyanine R Method		
3	Aluminum	0.02 to 0.50 mg/L Al	Chromazurol S Method		
4	Arsenic	0 to 0.200 mg/L As	Silver Diethyldithiocarbamate Method	×	
5	Barium	2 to 100 mg/L	Turbidimetric Method		
6	Benzotriazole/Tolyltriazole	Benzotriazole 1.0 to 16.0 mg/L, Tolytriazole 1.0 to 20.0 mg/L	UV Photolysis Method		
7	Boron	0.2-14.0 mg/L	Carmines Method		×
8	Boron-LR	0.02 to 1.50 mg/L as B	Azomethine-H Method		
9	Bromine	0.05 to 4.50 mg/L	DPD Method		
10	Cadmium	0 to 80.0 µg/L	Dithizone Method		
11	Cadmium	0.02 to 0.30 mg/L Cd	Cadion Method		
12	Chloramine (Mono)-HR	0.1 to 10.0 mg/L Cl ₂	Indophenol Method		
13	Chloramine (Mono)-LR	0.04 to 4.50 mg/L Cl ₂	Indophenol Method		
14	Chloride	0.1 to 25.0 mg/L Cl ⁻	Mercuric Thiocyanate Method		
15	Chloride, Free	0.02 to 2.00 mg/L Cl ₂	DPD Method		×
16	Chlorine Dioxide	20 to 500 µg/L	Amaranth Method		
17	Chlorine Dioxide	0.04 to 5.00 mg/L	DPD Method		
18	Chlorine Dioxide-HR	5 to 1000 mg/L	Direct Reading Method		
19	Chlorine Dioxide-LR	0.01 to 1.00 mg/L	Chlorophenol Red Method		
20	Chlorine, Free	0.09 to 5.00 mg/L	DPD Method		
21	Chlorine, Free-HR	0.1 to 10.0 mg/L as Cl ₂	DPD Method		

22	Chlorine, Total	0.02 to 2.00 mg/L Cl ₂	DPD Method		×
23	Chlorine, Total	0.09 to 5.00 mg/L	DPD Method		
24	Chlorine, Total-HR	0.1 to 10.0 mg/L as Cl ₂	DPD Method		
25	Chlorine, Total-ULR	2 to 500 µg/L as Cl ₂	DPD Method		
26	Chromium, Hexavalent	0.010 to 0.700 mg/L Cr ⁶⁺	1,5-Diphenylcarbohydrazide Method		
27	Chromium, Total	0.01 to 0.70 mg/L	Alkaline Hypobromite Oxidation Method		
28	Chromium, Total and Hexavalent	0.03 to 1.00 mg/L C	1,5-Diphenylcarbohydrazide Method		
29	Cobalt	0.01 to 2.00 mg/L	1-(2-Pyridylazo)-2-Naphthol (PAN) Method		
30	COD (Chemical Oxygen Demand)-HR	20 to 1500 mg/L COD	Reactor Digestion Method		×
31	COD (Chemical Oxygen Demand)-LR	3 to 150 mg/L COD	Reactor Digestion Method		×
32	COD (Chemical Oxygen Demand)-UHR	200 to 15,000 mg/L COD	Reactor Digestion Method		×
33	COD (Chemical Oxygen Demand)-ULR	0.7 to 40 mg/L COD	Reactor Digestion Method		×
34	Copper	0.04 to 5.00 mg/L Cu	Bicinchoninate Method	×	
35	Copper	1 to 210 µg/L	Porphyrin Method		
36	Cyanide	0.002 to 0.240 mg/L CN ⁻	Pyridine-Pyrazalone Method		×
37	Cyanuric Acid	5 to 50 mg/L	Turbidimetric Method		
38	Detergent	0.002 to 0.275 mg/L LAS	Crystal Violet Method		
39	Flouride	0.02 to 2.00 mg/L F ⁻	SPADNS Method		×
40	Formaldehyde	3 to 500 µg/L	MBTH Method		
41	Hardness	0.05 to 4.00 mg/L Ca and Mg as CaCO ₃	Calcium and Magnesium; Calmagite Colorimetric Method		

42	Hardness	8 to 1000 µg/L Ca and Mg as CaCO ₃	Calcium and Magnesium; Chlorophosphonazo Colorimetric Method		
43	Hardness, Total-ULR	4 to 1000 µg/L Ca & Mg as CaCO ₃	Calcium and Magnesium; Chlorophosphonazo Rapid Liquid Method		
44	Hydrazine	4 to 600 µg/L	p-Dimethylaminobenzaldehyde Method		
45	Iodine	0.07 to 7.00 mg/L	DPD Method		
46	Iron	0.009 to 1.400 mg/L	FerroZine® Method		
47	Iron	0.009 to 1.400 mg/L Fe	FerroZine® Rapid Liquid Method*		
48	Iron, Ferrous	0.02 to 3.00 mg/L Fe ²⁺	1,10 Phenanthroline Method		×
49	Iron, Total	0.02 to 3.00 mg/L Fe	FerroVer® Method		×
50	Iron, Total	0.012 to 1.800 mg/L	TPTZ Method		
51	Iron, Total	0.01 to 1.80 mg/L	FerroMo Method		
52	Lead	5 to 150 µg/L	LeadTrak®1 Fast Column Extraction Method		
53	Lead	3 to 300 µg/L	Dithizone Method		
54	Lead	0.1 to 2.0 mg/L Pb	PAR Method		
55	Manganese-HR	0.1 to 20.0 mg/L	Periodate Oxidation Method		
56	Manganese-LR	0.006 to 0.700 mg/L	1-(2-Pyridylazo)-2-Naphthol PAN Method		
57	Mercury	0.1 to 2.5 µg/L	Cold Vapor Mercury Concentration Method		
58	Mn-LR	0 to 0.70 mg/L Mn			×
59	Molybdenum, Molybdate	0.02 to 3.00 mg/L	Ternary Complex Method		
60	Molybdenum, Molybdate-HR	0.2 to 40.0 mg/L	Mercaptoacetic Acid Method		
61	Nickel	0.006 to 1.000 mg/L	1-(2 Pyridylazo)-2-Naphthol (PAN) Method		
62	Nickel	0.02 to 1.80 mg/L Ni	Heptoxime Method		
63	Nickel	0.1 to 6.0 mg/L Ni	Dimethylglyoxime Method		
64	Nitrate, Nitrogen	0.3 to 30.0 mg/L NO ₃ ⁻ -N	Cadmium Reduction Method		×
65	Nitrate-HR	0.2 to 30.0 mg/L NO ₃ -N	Chromotropic Acid Method		

66	Nitrate-HR	5–35 mg/L NO ₃ —N or 22–155 mg/L NO ₃	Dimethylphenol Method		
67	Nitrate-LR	0.01 to 0.50 mg/L NO ₃ —N	Cadmium Reduction Method		
68	Nitrate-LR	0.23 to 13.50 mg/L NO ₃ —N or 1.00 to 60.00 mg/L NO ₃	Dimethylphenol Method		
69	Nitrate-MR	0.1 to 10.0 mg/L NO ₃ —N	Cadmium Reduction Method		
70	Nitrite, Nitrogen-LR	0.002 to 0.300 mg/L NO ₂ ⁻ -N	Diazotization Method		×
71	Nitrite-HR	2 to 250 mg/L NO ₂ -	Ferrous Sulfate Method		
72	Nitrite-LR	0.003 to 0.500 mg/L NO ₂ —N	Diazotization Method		
73	Nitrite-LR	0.015 to 0.600 mg/L NO ₂ —N or 0.05 to 2.00 mg/L NO ₂	Diazotization Method		
74	Nitrogen, Ammonia	0.02 to 2.50 NH ₃ -N	Nessler Method		×
75	Nitrogen, Ammonia	0.01 to 0.50 mg/L NH ₃ -N	Salicylate Method		
76	Nitrogen, Ammonia-HR	0.4 to 50.0 mg/L NH ₃ -N	Salicylate Method		
77	Nitrogen, Ammonia-HR	2 to 47 mg/L NH ₃ -N	Salicylate Method		
78	Nitrogen, Ammonia-LR	0.02 to 2.50 mg/L NH ₃ -N	Salicylate Method		
79	Nitrogen, Ammonia-LR	1 to 12 mg/L NH ₃ -N	Salicylate Method		
80	Nitrogen, Ammonia-ULR	0.015 to 2.000 mg/L NH ₃ -N	Salicylate Method		
81	Nitrogen, Total Inorganic	0.2 to 25.0 mg/L N	Titanium Trichloride Reduction Method		

82	Nitrogen, Total Kjeldahl	1 to 150 mg/L	Nessler Method (Digestion Required)		
83	Nitrogen, Total-HR	0.5 to 25.0 mg/L N	Persulfate Digestion Method		
84	Nitrogen, Total-LR	2 to 150 mg/L N	Persulfate Digestion Method		
85	Nitrogen, Total-LR	10 to 150 mg/L N	Persulfate Digestion Method		
86	Phenols	0.002 to 0.200 mg/L Phenol	4-Aminoantipyrine Method		×
87	Phosphonates	0.02–2.50 and 1.0–125.0 mg/L PO ₄ ³⁻	Persulfate UV Oxidation Method,	×	
88	Phosphorous, Reactive-HR	0.3 to 45.0 mg/L PO ₄ ³⁻	Molybdovanadate Rapid Liquid Method		×
89	Phosphorous, Reactive-LR	0.02 to 2.50 mg/L PO ₄ ³⁻	Ascorbic Acid Method		×
90	Phosphorous, Total-HR	1.0 to 100.0 mg/L PO ₄ ³⁻	Acid Persulfate Digestion		×
91	Phosphorous, Total-LR	0.06 to 3.50 mg/L PO ₄ ³⁻	Acid Persulfate Digestion		×
92	Potassium	0.1 to 7.0 mg/L K	Tetraphenylborate Method		×
93	Quaternary Ammonium	0.2 to 5.0 mg/L as CTAB	Direct Binary Complex Method		
94	Silica-HR	1 to 100 mg/L SiO ₂	Silicomolybdate Method		×
95	Silica-LR	0.010 to 1.600 mg/L as SiO ₂	Heteropoly Blue Method		
96	Silica-ULR	3 to 1000 µg/L as SiO ₂	Heteropoly Blue Method		
97	Silver	0.005 to 0.700 mg/L	Colorimetric Method		
98	Sulfate	2 to 70 mg/L SO ₄ ²⁻	SulfaVer [®] 4 Method		×
99	Sulfide	5 to 800 µg/L S ²⁻	Methylene Blue Method		×
100	Sulfite	0.10 to 5.00 mg/L SO ₃ ²⁻	DTNB Method		×
101	Surfactant(anionic)	0 to 0.28 mg/L			×
102	Suspended Solids	5 to 750 mg/L	Photometric Method		
103	Tannin and Lignin	0.1 to 9.0 mg/L	Tyrosine Method	×	
104	TOC-HR	100 to 700 mg/L C	Direct Method		

105	TOC-LR	0.3 to 20.0 mg/L C	Direct Method		
106	TOC-MR	15 to 150 mg/L C	Direct Method		
107	Zinc	0.01 to 3.00 mg/L Zn	Zincon Method		