

Parameters and Testing Ranges

Parameter	Method	Range	# of Tests	Replacement Reagents
Acid Demand, pH 4.3 p.p.m. Reagents	Acid/Indicator	0.1-4 mmol/L	100	RT321-0
Alkalinity-m (total)	Acid/Indicator	5-300	100	RT321-0
Alkalinity-p	Acid/Indicator	5-500	100	RT323-0
Aluminum	Eriochrome cyanide R (Tablet)	0.01-0.3	100	RS5460
Aluminum	Eriochrome cyanide R (Powder)	0.01-0.25	100	RS5000
Ammonium	Indophenole	0.02-1	100	RS5540
Ammonium	Salicylate	0.01-0.8	100	RS5500
Ammonium, LR	Salicylate	0.02-2.25	50	RS5600
Ammonium, HR	Salicylate	1-50	50	RS5650
PHMB (Biguanide)	Buffer/Indicator	2-60	100	RT610-0
Boron	Azomethine	0.1-2	100	RS5050
Bromine	DPD	0.05-13	100	RT106-0
Calcium Hardness	Murexide	50-900	100	RT565-0
Calcium Hardness	Murexide	0-500	100	RT776-0
Chloramines (Mono)	Indophenol	0.04-4.50	100	RS5800
Chloride	Silver nitrate/Turbidity	0.5-25	100	RS5910
Chlorine	DPD	0.01-6	100	RS1060
Chlorine	DPD	0.02-4	100	RS1056
Chlorine, HR	Potassium Iodide/Acid	5-200	100	RS5480
Chlorine, Free	DPD	0.02-2	100	RP101-0
Chlorine, Total	DPD	0.02-2	100	RP012-0
Chlorine, UHR	Potassium Iodide	0.02-16% NaHCl	100	RS5480
Chlorine Dioxide	DPD	0.05-11	100	RS2170
COD, LR	Dichromate/H2SO4	0-150	25 or 150	TT20721 or TT20725
COD, MR	Dichromate/H2SO4	0-1500	25 or 150	TT20722 or TT20726
COD, HR	Dichromate/H2SO4	0-15000	25 or 150	TT20723 or TT20727
Color	APHA, Pt. Co.	0-500		Direct Reading
Copper	Biquinoline	0.05-5	100	RS3550
Copper, Free	Bicichoninate	0.05-5	100	RP030-0

Cyanide	Pyridine-barbituric acid	0.01-0.5	260	L2418875
Cyanuric Acid	Melamine	2-160	100	RT132-0
DEHA	PPST (Tablet)	20-500 ?g/L	100	RS3220
DEHA	PPST (Powder)	20-500 ?g/L	100	RS6000
Fluoride	SPANDS	0.05-2	~125	L467481
Hardness, Total	Metallphthalein	2-50	100	RT566-0
Hardness, Total HR	Metallphthalein	20-500	100	RT566-0
Hydrazine	Dimethylaminobenzaldehyde	0.05-0.5	100	RS2910
Hydrazine	Dimethylaminobenzaldehyde	0.01-0.6	~100	L531200
Hydrazine	PDMAB	0.01-0.7	30	L380470
Hydrogen Peroxide	DPD/Catalyst	0.03-3	100	RT238-0
Iodine	DPD	0.03-3	100	RT106-0
Iron (II, III) Soluble	PPST	0.02-1	100	RS5370
Iron (II, III) Soluble	1, 10-Phenanthroline	0.02-3	100	RP056-0
Iron (Total)	TPTZ	0-.02-1.8	100	RP055-0
Manganese	Formaloxime	0.2-4	100	RS6080
Manganese, LR	PAN	0.01-0.7	50	RS5090
Manganese, HR	Periodate Oxidation	0.1-18	100	RS6500
Molybdate	Thioglycolate	1-50	100	RS3060
Molybdate, HR	Mercaptoacetic acid	0.5-66	100	RS5300
Nitrate	Chromotropic acid	1-30	50	RS5580
Nitrite	N(1-Naphthyl) ethylenediamine	0.01-0.5	100	RT231-0
Nitrite, LR	Diazotization	0.01-0.3	100	RP098-0
Nitrogen, Total LR	Persulfate Digestion method	0.5-25	50	RS5550
Nitrogen, Total HR	Persulfate Digestion method	5-150	50	RS5560
Oxygen, active	DPD	0.1-10	100	RT122-0
Oxygen, dissolved	Rhodazine DTM	10-800 ?g/L	30	L380450
Ozone	DPD/Glycine	0.02-2	100	RS1060
Phosphate, ortho LR	Phosphormolybdic blue/ Ascorbic acid	0.05-4	100	RS3040
Phosphate, ortho HR	Vanado molybdate	5-80	100	RS5810
Phosphate, ortho	Ascorbic acid	0.06-2.5	100	RP155-0
Phosphate, ortho	Ascorbic acid	0.06-5	50	RS5200
Phosphate, acid-hydrolyzable	Acid digestion	0.02-1.6	50	RS5250
Phosphate, Total	Acid persulfate digestion	0.02-1.1	50	RS5210
Phosphate 1, ortho	Vanado molybdate	5-40	30	L380460

Phosphate 2, ortho	Stannous chloride	0.05-5	30	L380480
Phosphonates	UV Oxidation	0-125	100	RS5220
pH-value	Bromocresol purple	5.2-6.8	100	RT570-0
pH-value	Phenol Red	6.5-8.4	100	RT177-0
pH-value	Phenol Red	6.5-8.4	15 mL	L471040
pH-value	Thymol blue	8.0-9.6	100	RT571-0
Potassium	Tetraphenylborate (Turbidity)	0.7-12	100	RT567-0
Silica	Silicomolybdate	0.05-4	100	RS3130
Silica, LR	Heteropoly blue	0.1-1.6	100	RS5690
Silica, HR	Silicomolybdate	1-90	100	RS5700
Sulfate	Barium sulfate (Turbidity)	5-100	100	RT545-0
Sulfate	Barium sulfate (Turbidity)	5-100	100	RP216-0
Sulfide	DPD/Catalyst	0.04-0.5	100	RS2960
Sulfite	DTNB	0.1-5	100	RT802-0
Suspended Solids	Turbidity / Attenuated Radiation	0-750		Direct Reading
Turbidity	Attenuated Radiation	0-1000		Direct Reading
Urea	Indophenol / Urease	0.1-2.5	100	RS9300
Zinc	Zincon	0.02-1.0	100	RS2620