

Hach Methods Quick Reference Guide

The tables on the following 5 pages list test ranges, methods of analysis, and corresponding reagent set Product Numbers. The complete procedures are available on nz.hach.com. The ranges given are for the pre-calibrated instrument readout; higher ranges can be analyzed by sample dilution. Parameters marked "EPA" are USEPA-approved, accepted, or equivalent for reporting purposes; sample pretreatment may be required on some procedures. If no reagent set is listed for a parameter, order needed reagents and supplies separately.

Test	USEPA	Method	Number	Range	DR6000	DR3900	DR1900	DR900	DR300	SL1000	Prod. No.
Alkalinity, Total (TNTplus)		Colorimetric	10239	25 - 400 mg/L	•	•	•				TNT870
Alkalinity, Total, LR (Chemkey)		Colorimetric	10280	20 - 200 mg/L						•	8636200
Alkalinity, Total, HR (Chemkey)		Colorimetric	10283	200 - 700 mg/L						•	8636100
Aluminum		Aluminon	8012	0.008 - 0.800 mg/L	•	•	•	•	•		2242000
Aluminum		Eriochrome Cyanine R	8326	0.002 - 0.250 mg/L	•	•	•				2603700
Aluminum (TNTplus)		Chromazurol S	10215	0.02 - 0.50 mg/L	•	•	•				TNT848
ANAMMOX Activity (TNTplus)		Heme	10304	0-1000 mAbs	•	•	•				TNT882KTO
Ammonia, Nitrogen		Salicylate	8155	0.01 - 0.50 mg/L	•	•	•	•	•		2668000
Ammonia, Nitrogen (TNTplus), ULR	•	Salicylate	10205	0.015 - 2.000 mg/L	•	•	•				TNT830
Ammonia, Nitrogen	•	Nessler	8038	0.02 - 2.50 mg/L	•	•	•				2458200
Ammonia, Nitrogen (Test 'N Tube), LR		Salicylate	10023	0.02 - 2.50 mg/L	•	•	•	•			2604545
Ammonia, Nitrogen (TNTplus), LR	•	Salicylate	10205	1 - 12 mg/L	•	•	•				TNT831
Ammonia, Nitrogen (Test 'N Tube), HR		Salicylate	10031	0.4 - 50.0 mg/L	•	•	•	•			2606945
Ammonia, Nitrogen (TNTplus), HR	•	Salicylate	10205	2 - 47 mg/L	•	•	•				TNT832
Ammonia, Nitrogen (TNTplus), UHR	•	Salicylate	10205	47 - 130 mg/L	•	•	•				TNT833
Ammonia, Nitrogen (TNTplus), UHR+	•	Salicylate	10301	100 - 1800 mg/L	•	•	•				TNT834
Ammonia, Free (Chemkey)		Indophenol	10269	0.05 - 0.50 mg/L						•	9429600 ²
Ammonia, Total (Chemkey)		Indophenol	10268	0.05 - 1.50 mg/L						•	9425200
Arsenic	•	Silver Diethyldithiocarbamate	8013	0.020 - 0.200 mg/L	•	•	•				See Method
Barium		Turbidimetric	8014	2 - 100 mg/L	•	•	•				1206499
Benzotriazole		UV Photolysis	8079	1.0 - 16.0 mg/L	•	•	•	•			2141299
Boron (TNTplus)		Azomethine-H	10274	0.05 - 2.50 mg/L	•	•	•				TNT877
Boron		Carmine	8015	0.2 - 14.0 mg/L	•	•	•				1417099
Bromine		DPD	8016	0.05 - 4.50 mg/L	•	•	•	•	•		2105669
Bromine (AccuVac)		DPD	8016	0.05 - 4.50 mg/L	•	•	•	•	•		2503025
Cadmium (TNTplus) ¹		Cadion	10217	0.02 - 0.30 mg/L	•	•	•				TNT852
Carbohydrazide		Iron Reduction	8140	5 - 600 µg/L	•	•	•	•			2446600
Chloramine, Mono, LR		Indophenol	10171, 10200	0.04 - 4.50 mg/L	•	•	•	•	•		2802246
Chloramine, Mono (Test 'N Tube), HR		Indophenol	10172	0.1 - 10.0 mg/L	•	•	•				2805145
Chloramine, Mono (Chemkey)		Indophenol	10270	0.04 - 4.00 mg/L						•	9429400
Chloride		Mercuric Thiocyanate	8113	0.1 - 25.0 mg/L	•	•	•				2319800
Chloride (TNTplus)		Mercuric Thiocyanate	10291	1 - 70 mg/L Cl 70 - 1000 mg/L Cl	•	•	•				TNT879
Chlorine, Free		Indophenol	10241	0.04 - 4.50 mg/L	•	•	•	•			2802299 + 2964926
Chlorine, Free	•	DPD	8021	0.02 - 2.00 mg/L	•	•	•	•	•		2105569
Chlorine, Free (AccuVac)	•	DPD	8021	0.02 - 2.00 mg/L	•	•	•	•	•		2502025
Chlorine, Free (Pour-Thru Cell)		DPD Rapid Liquid	10059	0.02 - 2.00 mg/L	•	•	•				2556900
Chlorine, Free (TNTplus)	•	DPD	10231	0.05 - 2.00 mg/L	•	•	•				TNT866
Chlorine, Free (Test 'N Tube)		DPD	10102	0.09 - 5.00 mg/L	•	•	•				2105545
Chlorine, Free, MR	•	DPD	10245	0.05 - 4.00 mg/L	•	•	•	•	•		1407099

¹As listed, test determines soluble metal. Order Metals Prep Set TNT890 to determine total metal.

²Free Ammonia Chemkeys can only be analyzed in tandem with the Monochloramine Chemkeys.

Test	USEPA	Method	Number	Range	DR6000	DR3900	DR1900	DR900	DR300	SL1000	Prod. No.
Chlorine, Free, HR	•	DPD	10069	0.1 - 10.0 mg/L	•	•	•	•	•		1407099
Chlorine, Free & Total (TNTplus)	•	DPD	10232	0.05 - 2.00 mg/L	•	•	•				TNT867
Chlorine, Free (Chemkey)	•	DPD	10260	0.04 - 4.00 mg/L						•	9429000
Chlorine, Total (Pour-Thru Cell), ULR	•	DPD	8370, 10014	2 - 500 µg/L	•	•	•				2563000
Chlorine, Total	•	DPD	8167	0.02 - 2.00 mg/L	•	•	•	•	•		2105669
Chlorine, Total (AccuVac)	•	DPD	8167	0.02 - 2.00 mg/L	•	•	•	•	•		2503025
Chlorine, Total (Pour-Thru Cell)		DPD Rapid Liquid	10060	0.02 - 2.00 mg/L	•	•	•				2557000
Chlorine, Total (Test 'N Tube)		DPD	10101	0.09 - 5.00 mg/L	•	•	•				2105645
Chlorine, Total, MR	•	DPD	10250	0.05 - 4.00 mg/L	•	•	•	•	•		1406499
Chlorine, Total, HR		DPD	10070	0.1 - 10.0 mg/L	•	•	•	•	•		1406499
Chlorine, Total (Chemkey)	•	DPD	10260	0.04 - 10.00 mg/L						•	9429100
Chlorine Demand/Requirement	•	DPD	10223	Multiple Ranges	•	•	•	•	•		See Method
Chlorine Dioxide, DPD	•	DPD/Glycine	10126	0.04 - 5.00 mg/L	•	•	•	•	•		2770900
Chlorine Dioxide, LR		Chlorophenol Red	8065	0.01 - 1.00 mg/L	•	•	•				2242300
Chlorine Dioxide, MR		Direct Reading	8345	1 - 50 mg/L	•	•	•	•			—
Chlorine Dioxide, HR		Direct Reading	8138	5 - 1000 mg/L	•	•	•				—
Chromium, Hexavalent	•	1,5 Diphenylcarbohydrazide	8023	0.010 - 0.700 mg/L	•	•	•	•			1271099
Chromium, Hexavalent and Total (TNTplus)	• ¹	1,5 Diphenylcarbohydrazide	10218, 10219	0.03 - 1.00 mg/L	•	•	•				TNT854
Chromium, Total		Alkaline Hypobromite Oxidation	8024	0.01 - 0.70 mg/L	•	•	•	•			2242500
Cobalt		PAN	8078	0.01 - 2.00 mg/L	•	•	•				2651600
COD, ULR		Dichromate	8000	0.7 - 40.0 mg/L	•	•	•				2415825
COD, LR	•	Dichromate	8000	3 - 150 mg/L	•	•	•	•			2125825
COD, HR	•	Dichromate	8000	20 - 1,500 mg/L	•	•	•	•			2125925
COD, HR+		Dichromate	8000	200 - 15,000 mg/L	•	•	•	•			2415925
COD		Manganese III	10067	30 - 1000 mg/L	•	•	•	•			2623425
COD, Mercury-Free (TNTplus), HR		Dichromate	10236	25 - 1000 mg/L	•	•	•				TNT825
COD in Salt Water (TNTplus), LR		Dichromate	10299	7 - 70 mg/L	•	•	•				TNT815
COD in Salt Water (TNTplus), HR		Dichromate	10299	70 - 700 mg/L	•	•	•				TNT816
COD (TNTplus), ULR		Dichromate	10211	1 - 60 mg/L	•	•	•				TNT820
COD (TNTplus), LR	•	Dichromate	8000	3 - 150 mg/L	•	•	•				TNT821
COD (TNTplus), HR	•	Dichromate	8000	20 - 1500 mg/L	•	•	•				TNT822
COD (TNTplus), UHR		Dichromate	10212	250 - 15,000 mg/L	•	•	•				TNT823
COD (TNTplus) UHR+		Dichromate	10212	5,000 - 60,000 mg/L	•	•	•				TNT824
Color ⁵		ADMI Weighted Ordinate	10048	3 - 250 units	•						—
Color, True and Apparent		Platinum-Cobalt	8025	15 - 500 units	•	•	•	•			—
Color, True and Apparent, LR ⁶		Platinum-Cobalt	8025	3 - 200 units	•	•					—
Copper, LR		Porphyrin	8143	1 - 210 µg/L	•	•	•	•			2603300
Copper	•	Bicinchoninate	8506	0.04 - 5.00 mg/L	•	•	•	•			2105869
Copper (TNTplus) ²		Bathocuproine	10238	0.1 - 8.0 mg/L	•	•	•				TNT860
Copper (Chemkey)	•	Bicinchoninate	10272	0.6 - 5.75 mg/L						•	9429200
Cyanide		Pyridine-Pyrazalone	8027	0.002 - 0.240 mg/L	•	•	•	•			2430200
Cyanuric Acid		Turbidimetric	8139	5 - 50 mg/L		•	•	•			246066
DEHA (Diethylhydroxylamine)		Iron Reduction	8140	3 - 450 µg/L	•	•	•	•			2446600
Detergents (Surfactants)		Crystal Violet	8028	0.002 - 0.275 mg/L	•	•	•	•			2446800
Dissolved Oxygen (AccuVac), LR		Indigo Carmine	8316	0.04 - 4.50 mg/L	•	•	•	•			2501025
Dissolved Oxygen (AccuVac), HR		HRDO	8166	0.3 - 15.0 mg/L	•	•	•	•	•		2515025
Dissolved Oxygen (AccuVac), UHR		Ultra High Range	8333	1.0 - 40.0 mg/L	•	•	•				2515025
Erythorbic Acid (Isoascorbic Acid)		Iron Reduction	8140	13 - 1500 µg/L	•	•	•	•			2446600
Fluoride, Arsenic Free	• ^{3,4}	SPADNS 2	10225	0.02 - 2.00 mg/L	•	•	•	•			2947549
Fluoride, Arsenic Free (AccuVac)	• ^{3,4}	SPADNS 2	10225	0.02 - 2.00 mg/L	•	•	•	•			2527025
Fluoride, Arsenic Free (TNTplus)	• ³	SPADNS 2	10225	0.1 - 2.5 mg/L	•	•	•				TNT878
Fluoride	• ⁴	SPADNS	8029	0.02 - 2.00 mg/L	•	•	•	•			44449
Fluoride (AccuVac)	• ⁴	SPADNS	8029	0.02 - 2.00 mg/L	•	•	•	•			2506025
Formaldehyde		MBTH	8110	3 - 500 µg/L	•	•	•				2257700
Formaldehyde (TNTplus)		Acetylacetone	10295	0.5 - 10 mg/L H ₂ CO	•	•	•				TNT871
Hardness, Total, ULR		Chlorophosphonazo Colorimetric	8374	8 - 1000 µg/L	•	•	•				2603100

¹EPA approved for Cr⁶⁺ only. ²As listed, test determines soluble metal. Order Metals Prep Set TNT890 to determine total metal.

³Per 40 CFR 136.6 Method Modification and Flexibility. ⁴Not EPA accepted for drinking water using the DR900 colorimeter.

⁵Others color scale available: CIE L*a*b, Hazen, Iodine, Gardner, Yellowness & EBC (Z). ⁶Requires 5cm glass cell.

Test	USEPA	Method	Number	Range	DR6000	DR3900	DR1900	DR900	DR300	SL1000	Prod. No.
Hardness, Total, ULR (Pour-Thru Cell)		Chlorophosphonazo Rapid Liquid	8167	4 - 1000 µg/L	•	•	•				See Method
Hardness, Ca & Mg		Calmagite Colorimetric	8030	0.05 - 4.00 mg/L	•	•	•	•			2319900
Hardness, Total, LR (Chemkey)		Calmagite Colorimetric	10284	3 - 100 mg/L						•	8636400
Hardness, Total, HR (Chemkey)		Calmagite Colorimetric	10285							•	8638400
Hardness, Water (TNTplus)		Metalphthalein	10293	20 - 350 mg/L as CaCO ₃ 5 - 100 mg/L Ca 3 - 50 mg/L Mg	•	•	•				TNT869
Hydrazine		p-Dimethylaminobenzaldehyde	8141	4 - 600 µg/L	•	•	•	•			179032
Hydrogen Peroxide (H ₂ O ₂) ¹		DPD	10290	0.05 - 5.00 mg/L	•	•	•				1406499
Hydroquinone		Iron Reduction	8140	9 - 1000 µg/L	•	•	•	•			2446600
International Bitterness Units (TNTplus)		Analogous MEBAK and ASBC	10288	≥ 2 BE	•	•					TNT817
Iodine DPD		DPD	8031	0.07 - 7.00 mg/L	•	•	•				2105669
Iodine DPD (AccuVac)		DPD	8031	0.07 - 7.00 mg/L	•	•	•				2503025
Iron (TNTplus) ²	•	Phenanthroline	10229	0.2 - 6.0 mg/L	•	•	•				TNT858
Iron		FerroZine	8147	0.009 - 1.400 mg/L	•	•	•	•			230166
Iron (Pour-Thru Cell)		FerroZine Rapid Liquid	8147	0.009 - 1.400 mg/L	•	•	•				230149
Iron, Ferrous		1, 10 Phenanthroline	8146	0.02 - 3.00 mg/L	•	•	•	•			103769
Iron, Total		FerroMo	8365	0.01 - 1.80 mg/L	•	•	•	•			2544800
Iron, Total		TPTZ	8112	0.012 - 1.800 mg/L	•	•	•	•	•		2608799
Iron, Total	•	FerroVer	8008	0.02 - 3.00 mg/L	•	•	•	•	•		2105769
Iron, Total (AccuVac)	•	FerroVer	8008	0.02 - 3.00 mg/L	•	•	•	•	•		2507025
Iron, Total (5-cm Sample Cell)		1,10 Phenanthroline	10306	0.01 - 1.00 mg/L	•	•					HPT251
Iron, Total Dissolved (Chemkey)		1,10 Phenanthroline	10281	0.05 - 3.00 mg/L						•	8636000
Isoascorbic Acid (Erythorbic Acid) (ISA)		Iron Reduction	8140	13 - 1500 µg/L	•	•	•	•			2446600
Lead		LeadTrak Fast Column Extraction	8317	5 - 150 µg/L	•	•	•				2375000
Lead	•	Dithizone	8033	3 - 300 µg/L	•	•	•				2243100
Lead (TNTplus) ²		PAR	10216	0.1 - 2.0 mg/L	•	•	•				TNT850
Manganese, LR		PAN	8149	0.006 - 0.700 mg/L	•	•	•	•			2651700
Manganese, LR		PAN	10286	0.005 - 0.500 mg/L	•	•	•				HPT291
Manganese, HR		Periodate Oxidation	8034	0.1 - 20.0 mg/L	•	•	•	•	•		2430000
Magnesium (TNTplus)		Metalphthalein	10292	0.5 - 50 mg/L Mg	•	•	•				TNT849
Mercury		Cold Vapor Mercury Concentration	10065	0.1 - 2.5 µg/L	•	•	•				2658300
Methylethylketoxime (MEKO)		Iron Reduction	8140	15 - 1000 µg/L	•	•	•	•			2446600
Molybdenum, Molybdate, LR		Ternary Complex	8169	0.02 - 3.00 mg/L	•	•	•	•	•		2449400
Molybdenum, Molybdate, HR		Mercaptoacetic Acid	8036	0.2 - 40.0 mg/L	•	•	•	•			2604100
Nickel		PAN	8150	0.006 - 1.000 mg/L	•	•	•	•	3		2651600
Nickel	•	Heptoxime	8037	0.02 - 1.80 mg/L	•	•	•				2243500
Nickel (TNTplus) ²		Dimethylglyoxime	10220	0.1 - 6.0 mg/L	•	•	•				TNT856
Nitrate, Nitrogen, LR		Cadmium Reduction	8192	0.01 - 0.50 mg/L	•	•	•	•			2429800
Nitrate, Nitrogen (TNTplus), LR	•	Dimethylphenol	10206	0.23 - 13.5 mg/L	•	•	•				TNT835
Nitrate, Nitrogen, MR		Cadmium Reduction	8171	0.1 - 10.0 mg/L	•	•	•	•			2106169
Nitrate, Nitrogen		UV Screening	10049	0.1 - 10.0 mg/L	•						—
Nitrate, Nitrogen (Test 'N Tube), HR		Chromotropic Acid	10020	0.2 - 30.0 mg/L	•	•	•	•			2605345
Nitrate, Nitrogen, HR		Cadmium Reduction	8039	0.3 - 30.0 mg/L	•	•	•	•	•		2106169
Nitrate, Nitrogen (TNTplus), HR	•	Dimethylphenol	10206	5 - 35 mg/L	•	•	•				TNT836
Nitrite, Nitrogen, LR	•	Diazotization	8507	0.002 - 0.300 mg/L	•	•	•	•			2107169
Nitrite, Nitrogen (Test 'N Tube), LR		Diazotization	10019	0.003 - 0.500 mg/L	•	•	•	•			2608345
Nitrite, Nitrogen (TNTplus), LR	•	Diazotization	10207	0.015 - 0.600 mg/L	•	•	•				TNT839
Nitrite, Nitrogen (TNTplus), HR	•	Diazotization	10237	0.6 - 6.0 mg/L	•	•	•				TNT840
Nitrite, Nitrogen (TNTplus), UHR	•	Diazotization	10296	2 - 90 mg/L	•	•	•				TNT841
Nitrite, Nitrogen, HR		Ferrous Sulfate	8153	2 - 250 mg/L	•	•	•	•			2107569
Nitrite, Nitrogen (Chemkey)		Diazotization	10271	0.005 - 0.600 mg/L						•	9429300
Nitrogen, Ammonia (see Ammonia, Nitrogen)											
Nitrogen, Total (Test 'N Tube), LR		Persulfate Digestion	10071	0.5 - 25.0 mg/L	•	•	•	•			2672245
Nitrogen, Total (TNTplus), LR		Persulfate Digestion	10208	1 - 16 mg/L	•	•	•				TNT826

¹Requires Product. No. 193332 & 1456842. ²As listed, test determines soluble metal. Order Metals Prep Set TNT890 to determine total metal.

³Nickel PAN method reagent set for DR 900 is Prod. No. 2242600.

Test	USEPA	Method	Number	Range	DR6000	DR9900	DR1900	DR900	DR300	SL1000	Prod. No.
Nitrogen, Total (TNTplus), HR		Persulfate Digestion	10208	5 - 40 mg/L	•	•	•				TNT827
Nitrogen, Total (Test 'N Tube), HR		Persulfate Digestion	10072	2 - 150 mg/L	•	•	•	•			2714100
Nitrogen, Total (TNTplus), UHR		Persulfate Digestion	10208	20 - 100 mg/L	•	•	•				TNT828
Nitrogen, Total Inorganic (TIN) (Test 'N Tube)		Titanium Trichloride Reduction	10021	0.2 - 25.0 mg/L	•	•	•	•			2604945
Nitrogen, Simplified TKN (TNTplus)	•	s-TKN	10242	0 - 16 mg/L	•	•	•				TNT880
Nitrogen, Total Kjeldahl (TKN)		Nessler	8075	1 - 150 mg/L	•	•	•	•			2495300
Organic Carbon, Total (See TOC)											
Organic Constituents, UV-Absorbing (UV-254)		Direct Reading	10054	Varies-Units Abs/cm	•						—
Oxygen Demand, Chemical (See COD)											
Oxygen, Dissolved (See Dissolved Oxygen)											
Oxygen Scavengers (See specific compounds)											
Ozone (AccuVac), LR		Indigo	8311	0.01 - 0.25 mg/L	•	•	•	•	•		2516025
Ozone (AccuVac), MR		Indigo	8311	0.01 - 0.75 mg/L	•	•	•	•	•		2517025
Ozone (AccuVac), HR		Indigo	8311	0.01 - 1.50 mg/L	•	•	•	•			2518025
Peracetic Acid (PAA) ¹		DPD	10290	0.10 - 10.00 mg/L	•	•	•				1406499
Peracetic Acid (PAA) (Chemkey)		DPD	10297	0.04 - 50.00 mg/L						•	8635200
pH (Chemkey)		Colorimetric Phenol Red	10298	6.3 - 9.0 units						•	9759000
pH		Colorimetric Phenol Red	10076	6.5 - 8.5 units				•			2657512
Phenols	•	4-Aminoantipyrine	8047	0.002 - 0.200 mg/L	•	•	•				See Method
Phenols (TNTplus)		4-Aminoantipyrine	10266	5 - 150 mg/L	•	•	•				TNT868
Phosphonates		Persulfate UV Oxidation	8007	0.02 - 125.0 mg/L	•	•	•	•			2429700
Phosphorus, Reactive	•	PhosVer 3	8048	0.02 - 2.50 mg/L	•	•	•	•	•		2106069
Phosphorus, Reactive (AccuVac)	•	PhosVer 3	8048	0.02 - 2.50 mg/L	•	•	•	•	•		2508025
Phosphorus, Reactive (Test 'N Tube)	•	PhosVer 3	8048	0.06 - 5.00 mg/L	•	•	•	•			2742545
Phosphorus, Reactive		Amino Acid	8178	0.23 - 30.00 mg/L	•	•	•	•			2244100
Phosphorus, Reactive (5-cm Sample Cell)		Ascorbic Acid	10307	0.01 - 0.50 mg/L	•	•					HPT487
Phosphate, LR (Chemkey)		Ascorbic Acid	10279	0.20 - 4.00 mg/L						•	8636600
Phosphate, HR (Chemkey)		Ascorbic Acid	10282	2.0 - 30.0 mg/L						•	8636500
Phosphorus, Reactive		Molybdovanadate	8114	0.3 - 45.0 mg/L	•	•	•	•			2076032
Phosphorus, Reactive (Test 'N Tube), HR		Molybdovanadate	8114	1.0 - 100.0 mg/L	•	•	•	•			2767345
Phosphorus, Reactive (Pour-Thru Cell), HR		Molybdovanadate Rapid Liquid	8114	0.3 - 45.0 mg/L	•	•	•				2076049
Phosphorus, Reactive (Pour-Thru Cell), LR	•	Ascorbic Acid Rapid Liquid	10055	19 - 3000 µg/L	•	•	•				2678600
Phosphorus, Reactive (TNTplus)		Molybdovanadate	10214	5.0 - 90.0 mg/L	•	•	•				TNT846
Phosphorus, Acid Hydrolyzable (Test 'N Tube)		PhosVer 3 with Acid Hydrolysis	8180	0.06 - 3.50 mg/L	•	•	•	•			2742645
Phosphorus, Total (Test 'N Tube)	•	PhosVer 3 with Acid Persulfate Digestion	8190	0.06 - 3.50 mg/L	•	•	•	•			2742645
Phosphorus, Total (Test 'N Tube), HR		Molybdovanadate with Acid Persulfate Digestion	10127	1.0 - 100.0 mg/L	•	•	•	•			2767245
Phosphorus, Reactive and Total (TNTplus), LR	•	Ascorbic Acid	10209, 10210	0.15 - 4.50 mg/L	•	•	•				TNT843
Phosphorus, Reactive and Total (TNTplus), HR	•	Ascorbic Acid	10209, 10210	1.5 - 15.0 mg/L	•	•	•				TNT844
Phosphorus, Reactive and Total (TNTplus), UHR	•	Ascorbic Acid	10209, 10210	6 - 60 mg/L	•	•	•				TNT845
Potassium		Tetraphenylborate	8049	0.1 - 7.0 mg/L	•	•	•				2459100
Quaternary Ammonium Compounds		Direct Binary Complex	8337	0.2 - 5.0 mg/L	•	•	•				2459200
Silica (Pour-Thru Cell), ULR		Heteropoly Blue	8282	3 - 1000 µg/L	•	•	•				2553500
Silica (Pour-Thru Cell), ULR		Heteropoly Blue Rapid Liquid	8282	3 - 1000 µg/L	•	•	•				2678500
Silica, LR		Heteropoly Blue	8186	0.010 - 1.600 mg/L	•	•	•	•			2459300
Silica, HR		Silicomolybdate	8185	1 - 100 mg/L	•	•	•	•			2429600
Silver		Colorimetric	8120	0.02 - 0.70 mg/L	•	•	•				2296600
Sulfate	•	SulfaVer 4	8051	2 - 70 mg/L	•	•	•	•			2106769

¹Requires Product. No. 193332 & 1456842.

Test	USEPA	Method	Number	Range	DR6000	DR3900	DR1900	DR900	DR300	SL1000	Prod. No.
Sulfate (TNTplus), LR		Turbidimetric	10227	40 - 150 mg/L	•	•	•				TNT864
Sulfate (TNTplus), HR		Turbidimetric	10227	150 - 900 mg/L	•	•	•				TNT865
Sulfide	•	Methylene Blue	8131	5 - 800 µg/L	•	•	•	•			2244500
Sulfide (TNTplus)	•	Dimethyl-p-phenylenediamine	10294	0.1 - 2.0 mg/L	•	•	•				TNT861
Surfactants (See Detergents)											
Surfactants, Anionic (TNTplus)		Methylene Blue (MBA)	8131	0.1 - 4.0 mg/L	•	•	•				TNT874
Surfactants, Cationic (TNTplus)		Cetyltrimethylammonium Bromide	10305	0.2 - 2.0 mg/L	•	•	•				TNT885
Surfactants, Nonionic LR (TNTplus)		TBPE	10275	0.2 - 6.0 mg/L as Triton x 100	•	•	•				TNT875
Surfactants, Nonionic HR (TNTplus)		TBPE	10275	6 - 200 mg/L as Triton X-100	•	•	•				TNT876
Suspended Solids		Photometric	8006	5 - 750 mg/L	•	•	•	•			—
Tannin & Lignin		Tyrosine	8193	0.1 - 9.0 mg/L	•	•	•	•			2244600
TKN (See Nitrogen, Simplified TKN and Nitrogen, Total Kjeldahl)											
TOC (Total Organic Carbon), LR		Direct Method	10129	0.3 - 20.0 mg/L	•	•	•	•			2760345
TOC - Total Organic Carbon (TNTplus), LR	•	Direct Method	10267	1.5 - 30 mg/L	•	•	•				TNT810
TOC (Total Organic Carbon), MR		Direct Method	10173	15 - 150 mg/L	•	•	•	•			2815945
TOC (Total Organic Carbon), HR		Direct Method	10128	100 - 700 mg/L	•	•	•	•			2760445
TOC - Total Organic Carbon (TNTplus), HR	•	Direct Method	10267	30 - 300 mg/L	•	•	•				TNT811
Tolytriazole		UV Photolysis	8079	1.0 - 20.0 mg/L	•	•	•	•			2141299
Toxicity		ToxTrak	10017	0 - 100 % inhibition	•	•	•	•			2597200
Trihalomethanes (THM)		THM Plus	10132	10 - 600 µg/L	•	•	•				2790800
Trihalomethane Formation Potential (THMFP)		THM Plus	10224	10 - 600 µg/L	•	•	•				2790800
Vicinal Diketone - VDK (TNTplus)		Analogous MEBAK and ASBC	10276	0.015 - 0.5 mg/kg	•	•					TNT819
Volatile Acids		Esterification	8196	27 - 2800 mg/L	•	•	•	•			2244700
Volatile Acids (TNTplus)		Esterification	10240	50 - 2500 mg/L	•	•	•				TNT872
Zinc	•	Zincon	8009	0.01 - 3.00 mg/L	•	•	•	•	•		2429300



New Zealand

0800 50 55 66 | sales@hachpacific.com | nz.hach.com

©Hach Company, 2023. All rights reserved.

In the interest of improving and updating its equipment, Hach Company reserves the right to alter specifications to equipment at any time. In the interest of improving and updating its equipment, Hach Company reserves the right to alter specifications to equipment at any time.