

Hach Reagent Sets for Colorimetry & Spectrophotometry

- Formulated for exceptional performance and dependable results
- Rigorously tested with Hach instrumentation for highest system performance



MFR #	PARAMETER	METHOD	RANGE (mg/L)	# TESTS	STOCK #	EACH	Use with:	DR300/Pocket Colorimeter II	DR900	DR1900	DR3900	DR6000
TNT870	Alkalinity, Total, TNTplus®	Colorimetric	25 to 400	25	204798	\$						
2242000	Aluminum	Aluminon	0.008 to 0.80	100	77256		•	•	•	•	•	•
2603700	Aluminum	Eriochrome Cyanine R	0.002 to 0.25	100	203894					•	•	•
TNT848	Aluminum, TNTplus	Chromazurol S	0.02 to 0.50	25	202127					•	•	•
TNT830	Ammonia, ULR, TNTplus	Salicylate	0.015 to 2.00	25	200386*					•	•	•
TNT831	Ammonia, LR, TNTplus	Salicylate	1 to 12	25	200387*					•	•	•
TNT832	Ammonia, HR, TNTplus	Salicylate	2 to 47	25	201332*					•	•	•
TNT833	Ammonia, UHR, TNTplus	Salicylate	47 to 130	25	86292*					•	•	•
2668000	Ammonia Nitrogen	Salicylate	0.01 to 0.50	100	32132		•	•	•	•	•	•
2458200	Ammonia Nitrogen	Nessler	0.02 to 2.50	250	200424*					•	•	•
2604545	Ammonia Nitrogen, LR, TNT	Salicylate	0.02 to 2.50	25 to 50	32528					•	•	•
2606945	Ammonia Nitrogen, HR, TNT	Salicylate	0.4 to 50	25 to 50	32517					•	•	•
2879200	Ammonia, Free, Nitrogen	Indophenol	0.02 to 0.50	50	77466		•	•	•	•	•	•
—	Arsenic	Silver Diethylthiocarbamate	0.020 to 0.200	—	—	—				•	•	•
1206499	Barium	Turbidimetric	2 to 100	100	203965					•	•	•
2141299	Benzotriazole	UV Photolysis	1.0 to 16.0	100	21112					•	•	•
TNT877	Boron, TNTplus	Carmine	0.05 to 2.5	25	86294					•	•	•
2105669	Bromine	DPD	0.05 to 4.50	100	32140		•	•	•	•	•	•
2503025	Bromine, AV	DPD	0.05 to 4.50	25	32508		•	•	•	•	•	•
2242200	Cadmium	Dithizone	0.7 to 80.0 µg/L	100	204192					•	•	•
TNT852	Cadmium, TNTplus	Cadion	0.02 to 0.30	25	86422					•	•	•
2446600	Carbohydrazide	Iron Reduction	5 to 600 µg/L	100	47872					•	•	•
2879200	Chloramine, Mono	Indophenol	0.04 to 4.5	50	77466		•	•	•	•	•	•
2802246	Chloramine, Mono, LR	Indophenol	0.04 to 4.5	50	77269		•	•	•	•	•	•
2805145	Chloramine, Mono, HR, TNT	Indophenol	0.1 to 10.0	50	204438					•	•	•
2319800	Chloride	Mercuric Thiocyanate	0.1 to 25.0	100	202047					•	•	•
—	Chlorine, Free	Indophenol	0.04 to 4.50	—	—	—	•	•	•	•	•	•
2105569	Chlorine, Free	DPD	0.02 to 2.00	100	32130*		•	•	•	•	•	•
2502025	Chlorine, Free, AV	DPD	0.02 to 2.00	25	32507*		•	•	•	•	•	•
2556900	Chlorine, Free, Pour-Thru Cell	DPD Rapid Liquid	0.02 to 2.00	—	28235					•	•	•
TNT866	Chlorine, Free, TNTplus	DPD	0.05 to 2.00	24	206473*					•	•	•
1407099	Chlorine, Free, MR/HR	DPD	0.05 to 4.00; 0.1 to 10.0	100	32850*		•	•	•	•	•	•
2105545	Chlorine, Free, TNT	DPD	0.09 to 5.00	50	77254					•	•	•
2105669	Chlorine, Total	DPD	0.02 to 2.00	100	32140*		•	•	•	•	•	•
2503025	Chlorine, Total, AV	DPD	0.02 to 2.00	25	32508*		•	•	•	•	•	•
1406499	Chlorine, Total, MR/HR	DPD	0.05 to 4.00; 0.1 to 10.0	100	32950*		•	•	•	•	•	•
2563000	Chlorine, Total, Pour-Thru Cell	DPD	2 to 500 µg/L	20	77503*					•	•	•
TNT867	Chlorine, Free & Total, TNTplus	DPD	0.05 to 2.00	24	62036*					•	•	•
2105645	Chlorine, Total, TNT	DPD	0.09 to 5.00	50	77255					•	•	•
—	Chlorine Demand/Requirement	DPD	Multiple Ranges	—	—	—	•	•	•	•	•	•
2770900	Chlorine Dioxide, MR	DPD/Glycine	0.04 to 5.00	100	30454*		•	•	•	•	•	•
2242300	Chlorine Dioxide, LR	Chlorophenol Red	0.01 to 1.00	100	77512					•	•	•
—	Chlorine Dioxide, MR	Direct Reading	1 to 50	—	—	—				•	•	•
—	Chlorine Dioxide, HR	Direct Reading	5 to 1000	—	—	—				•	•	•
1271099	Chromium, Hexavalent	1,5 Diphenylcarbohydrazide	0.010 to 0.70	100	32434*		•	•	•	•	•	•
2505025	Chromium, Hexavalent, AV	1,5 Diphenylcarbohydrazide	0.010 to 0.70	25	77261*		•	•	•	•	•	•
TNT854	Chromium, Hexavalent, TNTplus	1,5 Diphenylcarbohydrazide	0.03 to 1.00	24	45869**					•	•	•
2242500	Chromium, Total	Alkaline Hypobomite Oxidation	0.01 to 0.70	100	47862					•	•	•
2651600	Cobalt	PAN	0.01 to 2.00	100	77286					•	•	•
2415825	COD, ULR	Dichromate	0.7 to 40.0	25	32502					•	•	•
2125825	COD, LR	Dichromate	3 to 150	25	32492*					•	•	•
2125925	COD, HR	Dichromate	20 to 1500	25	32494*					•	•	•
2415925	COD, HR+	Dichromate	200 to 15,000	25	32504					•	•	•
2623425	COD	Manganese III	30 to 1000	25	204375					•	•	•
2565025	COD, LR Mercury Free	Reactor Digestion	3 to 150	25	32514					•	•	•
2565125	COD, HR Mercury Free	Reactor Digestion	20 to 1500	25	32515					•	•	•
2834325	COD, UHR Mercury Free	Reactor Digestion	200 to 15,000	25	32523					•	•	•

*EPA-approved method. Some tests require sample pretreatment such as filtration, distillation or digestion to meet EPA testing requirements.

**EPA approved for Cr⁶⁺ only. †As listed, test determines soluble metal. For total metal testing, order a metals prep set (stock # 86137; see page 818).

††Not EPA accepted for drinking water using DR900.

LR - Low Range MR - Mid Range HR - High Range UHR - Ultra High Range AV - AccuVac TNT - Test 'N Tube

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Hach Reagent Sets for Colorimetry & Spectrophotometry (continued)



MFR #	PARAMETER	METHOD	RANGE (mg/L)	# TESTS	STOCK #	EACH	Use with:				
							DR300/Pocket Colorimeter, II	DR900	DR1900	DR3900	DR6000
TNT820	COD, ULR, TNTplus	Dichromate	1 to 60	25	37959	\$					
TNT82006	COD, ULR, TNTplus	Dichromate	1 to 60	150	37945						
TNT821	COD, LR, TNTplus	Dichromate	3 to 150	25	200741*						
TNT822	COD, HR, TNTplus	Dichromate	20 to 1500	25	200740*						
TNT823	COD, UHR, TNTplus	Dichromate	250 to 15,000	25	63708						
TNT825	COD, Mercury-Free, HR, TNTplus	Reactor Digestion	25 to 1000	25	204797						
—	Color	ADMI Weighted Ordinate	3 to 250 Units	—	—	—					
—	Color, True & Apparent	Platinum-Cobalt	15 to 500 Units	—	—	—					
—	Color, True & Apparent, LR	Platinum-Cobalt	3 to 200 Units	—	—	—					
2105869	Copper	Bicinchoninate	0.04 to 5.00	100	32436*						
2603300	Copper, LR	Porphyrin	2 to 210 µg/L	100	77263						
2504025	Copper, AV	Bicinchoninate	0.04 to 5.00	25	30457						
TNT860	Copper, TNTplus	Bicinchoninate	0.1 to 8.00	25	37667†						
2430200	Cyanide	Pyridine-Pyrazalone	0.002 to 0.240	100	77257						
246066	Cyanuric Acid	Turbidimetric	5 to 50	50	77253						
2446600	DEHA (Diethylhydroxylamin)	Iron Reduction	3 to 450 µg/L	100	47872						
2446800	Detergents (Surfactants)	Crystal Violet	0.002 to 0.275	75	77258						
2501025	Dissolved Oxygen, LR, AV	Indigo Carmine	6 to 800 µg/L	25	30460						
2515025	Dissolved Oxygen, HR, AV	HRDO	0.3 to 15.0	25	32513						
2515025	Dissolved Oxygen, URH, AV	Ultra High Range	1.0 to 40.0	25	32513						
2446600	Erythroic Acid (Isoascorbic Acid)	Iron Reduction	13 to 1500 µg/L	100	47872						
44449	Fluoride	SPADNS	0.02 to 2.00	125	77252††						
2506025	Fluoride, AV	SPADNS	0.02 to 2.00	25	32509††						
2947549	Fluoride	SPADNS II	0.02 to 2.00	125	77272††						
2527025	Fluoride, Arsenic Free, AV	SPADNS II	0.02 to 2.00	25	32135††						
TNT878	Fluoride, TNTplus	SPADNS II	0.1 to 2.5	25	86293*						
2257700	Formaldehyde	MBTH	3 to 500 µg/L	100	86423						
2603100	Hardness, Total, ULR	Chorophosphonazo Colorimetric	8 to 1000 µg/L	100	204359						
—	Hardness, Total, ULR (Pour-Thru Cell)	Chorophosphonazo Colorimetric Rapid Liquid	4 to 1000 µg/L	—	—	—					
2319900	Hardness, Ca and Mg	Calmagite Colorimetric	0.05 to 4.00	100	32500						
179032	Hydrazine	p-Dimethylaminobenzaldehyde	4 to 600.0 µg/L	100	47790						
2446600	Hydroquinone	Iron Reduction	9 to 1000 µg/L	100	47872						
2105669	Iodine	DPD	0.07 to 7.00	100	32140						
2503025	Iodine, AV	DPD	0.07 to 7.00	25	32508						
103769	Iron, Ferrous	1, 10 Phenanthroline	0.02 to 3.00	100	32524						
TNT858	Iron, TNTplus	Phenanthroline	0.2 to 6.0	25	203823†						
230166	Iron	FerroZine®	0.009 to 1.400	50	32470						
230149	Iron (Pour-Thru Cell)	FerroZine Rapid Liquid	0.009 to 1.400	500	10247						
2608799	Iron, Total	TPTZ	0.012 to 1.80	100	77285						
2510025	Iron, Total, AV	TPTZ	0.012 to 1.80	25	77278						
2105769	Iron, Total	FerroVer®	0.02 to 3.00	100	32450*						
2507025	Iron, Total, AV	FerroVer	0.02 to 3.00	25	32510*						
2375000	Lead	LeadTrak™	5 to 150 µg/L	20	77275						
2243100	Lead	Dithizone	3 to 300 µg/L	60 to 100	204197*						
TNT850	Lead, TNTplus	PAR	0.1 to 2.0 mg/L	25	37666						
2651700	Manganese, LR	PAN	0.006 to 0.70	50	47867						
2430000	Manganese, HR	Periodate Oxidation	0.1 to 20.0	100	32525*						
2658300	Mercury	Cold Vapor Mercury Concentration	0.1 to 2.5 µg/L	25	204381						
2446600	Methylethylketoxime (MEKO)	Iron Reduction	15 to 1000 µg/L	50	47872						
2449400	Molybdenum, Molybdate, LR	Ternary Complex	0.02 to 3.00	100	47842						
2604100	Molybdenum, Molybdate, HR	Mercaptoacetic Acid	0.3 to 40.0	100	47836						
2522025	Molybdenum, Molybdate, HR, AV	Mercaptoacetic Acid	0.3 to 40.0	25	30465						
2651600	Nickel	PAN	0.006 to 1.000	100	77286						
2242600	Nickel	PAN	0.006 to 1.000	100	204195						
2243500	Nickel	Heptoxime	0.02 to 1.80	50	204199*						
TNT856	Nickel, TNTplus	Dimethylglyoxime	0.1 to 6.0	25	86424						
2429800	Nitrate, Nitrogen, LR	Cd Reduction	0.01 to 0.50	100	77276						
TNT835	Nitrate, Nitrogen, LR, TNTplus	Dimethylphenol	0.23 to 13.5	25	200743*						
2106169	Nitrate, MR	Cd Reduction	0.1 to 10.0	100	32490						
2511025	Nitrate, MR, AV	Cd Reduction	0.1 to 10.0	25	32512						
2106169	Nitrate, HR	Cd Reduction	0.3 to 30.0	100	32490						
2511025	Nitrate, HR, AV	Cd Reduction	0.3 to 30.0	25	32512						
TNT836	Nitrate, HR, TNTplus	Dimethylphenol	5 to 35	25	37966*						
—	Nitrate, Nitrogen	UV Screening	0.1 to 10.0	—	—	—					
2605345	Nitrate, HR, TNT	Chromotropic Acid	0.2 to 30.0	50	32516						
TNT839	Nitrite, LR, TNTplus	Diazotization	0.015 to 0.600	25	200742*						
2512025	Nitrite, LR, AV	Diazotization	0.002 to 0.300	25	32527*						
2107169	Nitrite, LR	Diazotization	0.002 to 0.300	100	32526*						



MFR #	PARAMETER	METHOD	RANGE (mg/L)	# TESTS	STOCK #	EACH	Use with:					
							DR300/Pocket Colorimeter II	DR900	DR1900	DR3900	DR6000	
2608345	Nitrite, TNT	Diazotization	0.003 to 0.50	50	32518	\$		•	•	•	•	•
TNT840	Nitrite, HR, TNTplus	Diazotization	0.6 to 6.0	25	201333				•	•	•	•
2107569	Nitrite, Nitrogen, HR	Ferrous Sulfate	2 to 250	100	77273			•	•	•	•	•
Nitrogen, Ammonia (See Ammonia Nitrogen)												
TNT826	Nitrogen, LR Total, TNTplus	Persulfate Digestion	1 to 16	25	37963				•	•	•	•
2672245	Nitrogen, Total, LR, TNT	Persulfate Digestion	0.5 to 25	25 to 50	32521			•	•	•	•	•
TNT827	Nitrogen, HR Total, TNTplus	Persulfate Digestion	5 to 40	25	37964				•	•	•	•
2714100	Nitrogen, Total, HR, TNT	Persulfate Digestion	10 to 150	25 to 50	77288			•	•	•	•	•
TNT828	Nitrogen, Total, UHR, TNTplus	Persulfate Digestion	20 to 100	25	37965				•	•	•	•
2604945	Nitrogen, Total Inorganic, TNT	TiCl ₃ Reduction	0.2 to 25.0	25 to 50	77264			•	•	•	•	•
TNT880	Nitrogen, Simplified TKN, TNTplus	s-TKN	0 to 16	25	203680				•	•	•	•
2495300	Nitrogen, Total Kjeldahl (TKN)	Nessler	1 to 150	250	77277			•	•	•	•	•
Organic Carbon, Total (See TOC)												
—	Organic Constituents, UV-Absorbing (UV-254)	Direct Reading	Varies	—	—	—						•
Oxygen, Dissolved (See Dissolved Oxygen)												
Oxygen Demand (See COD)												
2516025	Ozone, AV, LR	Indigo	0.01 to 0.25	25	77280			•	•	•	•	•
2517025	Ozone, AV, MR	Indigo	0.01 to 0.75	25	77281			•	•	•	•	•
2518025	Ozone, AV, HR	Indigo	0.01 to 1.50	25	77282			•	•	•	•	•
2657512	pH	Colorimetric	6.5 to 8.5 pH	50 to 100	30468			•	•			
2243900	Phenols	4-Aminoantipyrine	0.000 to 0.200	100	77564*					•	•	•
2429700	Phosphonates	Persulfate UV Oxidation	0.02 to 125.0	100	47849			•	•	•	•	•
2106069	Phosphorous, Reactive	PhosVer 3	0.02 to 2.50	100	32489*			•	•	•	•	•
2508025	Phosphorous, Reactive, AV	PhosVer 3	0.02 to 2.50	25	32511*			•	•	•	•	•
2742545	Phosphorous, Reactive, TNT	PhosVer 3	0.06 to 5.00	50	30471*			•	•	•	•	•
2244100	Phosphorus, Reactive	Amino Acid	0.23 to 30.00	100	77274				•	•	•	•
2076032	Phosphorus, Reactive	Molybdovanadate	0.3 to 45	50	32488				•	•	•	•
2525025	Phosphorus, Reactive, AV	Molybdovanadate	0.3 to 45.00	25	77283				•	•	•	•
2767345	Phosphorus, Reactive, TNT, HR	Molybdovanadate	1.0 to 100.0	50	77291				•	•	•	•
2076049	Phosphorus, Reactive (Pour-Thru Cell)	Molybdovanadate Rapid Liquid	0.3 to 45.00	500	203884					•	•	•
2678600	Phosphorus, Reactive (Pour-Thru Cell)	Ascorbic Acid Rapid Liquid	19 to 3000 µg/L	250	204405*					•	•	•
TNT846	Phosphorus, Reactive (Ortho), TNTplus	Molybdovanadate	1.6 to 30.0 (5 to 90)	25	37967					•	•	•
2742645	Phosphorous, TNT, LR	PhosVer 3 with Acid Hydrolysis	0.06 to 3.50	50	32522*				•	•	•	•
2767245	Phosphorus, Total, TNT, HR	Molybdovanadate with Acid Persulfate Digestion	1.0 to 100.0	25 to 50	77290				•	•	•	•
TNT843	Phosphate Reactive & Total, TNTplus, LR	Ascorbic Acid	0.05 to 1.50 (0.15 to 4.5)	25	202103*					•	•	•
TNT844	Phosphate Reactive & Total, TNTplus, HR	Ascorbic Acid	0.5 to 5.0 (1.5 to 15.0)	25	202104*					•	•	•
TNT845	Phosphate Reactive & Total, TNTplus, UHR	Ascorbic Acid	2 to 20 (6 to 60)	25	202501*					•	•	•
2459100	Potassium	Tetraphenylborate	0.1 to 7.0	100	86426					•	•	•
2459200	Quaternary Ammonium Compounds	Direct Binar Complex	0.2 to 5.0	100	86427					•	•	•
2244200	Selenium	Diaminobenzidine	0.01 to 1.00	66 to 100	86425					•	•	•
2553500	Silica (Pour-Thru Cell), ULR	Heteropoly Blue	3 to 1000 µg/L	100	77579					•	•	•
2678500	Silica (Pour-Thru Cell), ULR	Heteropoly Blue Rapid Liquid	3 to 1000 µg/L	250	77581					•	•	•
2459300	Silica, LR	Heteropoly Blue	0.010 to 1.60	100	47858				•	•	•	•
2429600	Silica, HR	Silicomolybdate	1 to 100	100	47857			•	•	•	•	•
2296600	Silver	Colorimetric	0.02 to 0.70	50	204227					•	•	•
2106769	Sulfate	SulfaVer 4	2 to 70	100	32445*			•	•	•	•	•
TNT864	Sulfate, TNTplus, LR	Turbidimetric	40 to 150	25	37968					•	•	•
TNT865	Sulfate, TNTplus, HR	Turbidimetric	150 to 900	25 to 50	37969					•	•	•
2244500	Sulfide	Methylene Blue	5 to 800 µg/L	100	32531*					•	•	•
—	Suspended Solids	Photometric	5 to 750	—	—	—				•	•	•
2244600	Tannin & Lignin	Tyrosine	0.1 to 9.0	100	77293					•	•	•
2760345	Total Organic Carbon (TOC), LR	Direct Method	0.3 to 20.0	25 to 50	77296					•	•	•
2815945	Total Organic Carbon (TOC), MR	Direct Method	15 to 150	25 to 50	77300					•	•	•
2760445	Total Organic Carbon (TOC), HR	Direct Method	100 to 700	25 to 50	77297					•	•	•
2141299	Tolytriazole	UV Photolysis	1.0 to 20.0	100	21112					•	•	•
2597200	Toxicity	ToxTrak	0 to 100% Inhibition	25 to 49	77295					•	•	•
2774300	TPH in Soil/Water	Immunoassay	Up to 18	Up to 18	77298			•	•	•	•	•
2790800	Trihalomethanes (THM, THMFP)	THM Plus	10 to 600 µg/L	50 to 99	77299					•	•	•
2244700	Volatile Acids	Esterification	27 to 2800	100	77294					•	•	•
TNT872	Volatile Acids, TNTplus	Esterification	50 to 2500	25	203666					•	•	•
2429300	Zinc	Zincon	0.01 to 3.0	100	32447*			•	•	•	•	•

* EPA-approved method. Some tests require sample pretreatment such as filtration, distillation or digestion to meet EPA testing requirements.

** EPA approved for Cr₆₊ only. † As listed, test determines soluble metal. For total metal testing, order a metals prep set (stock # 86137; see page 818).

†† Not EPA accepted for drinking water using DR900.

LR - Low Range MR - Mid Range HR - High Range UHR - Ultra High Range AV - AccuVac TNT - Test 'N Tube