

Choosing Your Spectrophotometer

Designed to meet a variety of lab and field needs, Hach spectrophotometers are accurate, versatile, and easy to use.



DR 2700™

- Basic photometric measurement for lab and field



DR 2800™

- Highly customizable for lab and field analysis
- Optimal accuracy, precision and error elimination when used with TNTplus chemistries



DR 5000™

- UV/Visible range measurement
- Advanced scanning function for sample profiling
- High volume analysis with optional accessories
- Optimal accuracy, precision and error elimination when used with TNTplus chemistries



FEATURES

Easy-to-use, intuitive touch screen	YES	YES	YES
Pre-programmed methods	130	240	over 270
Easy USB data transfer to common PC applications —no special software needed	YES	YES	YES
Programmable custom methods	10	50	50
Automatically stored test data points	200	500	1,000
Optional Pour-Thru cell for highly precise trace analysis	YES	YES	YES
Multiple languages available for worldwide use	YES	YES	YES
UV spectrum analysis			YES
Visible spectrum analysis	YES	YES	YES
Compatible with multiple sample cell sizes	YES	YES	YES
Multi-wavelength measurement	YES	YES	YES
Automatic method recognition with TNTplus		YES	YES
Error elimination with 10X measurement averaging when used with TNTplus		YES	YES
Reagent blank not required with TNTplus		YES	YES
Automatic sample measurement and graphing at user-specified time intervals		YES	YES
High-speed wavelength scanning for quality control and method development			YES
Optional Sipper Module for high throughput analysis			YES
Portable for field use with optional battery	YES	YES	
Space saving footprint 13.0in x 8.5in (21.6cm x 33.0cm)	YES	YES	
Water resistant with protective cover (IP42)	YES	YES	

KEY SPECIFICATIONS

Wavelength accuracy	±1.5nm	±1.5nm	±1.0nm
Bandwidth	5nm	5nm	2nm

Choosing Your Colorimeter

Designed for the rigors of field use, Hach colorimeters provide consistently accurate measurements of over 100 different parameters.

Pocket Colorimeter™ II

- Measure one or two parameters quickly and easily.



DR/820 Colorimeter

- Rugged enough for field use with 20-parameter versatility
- Easy method selection with keypad interface
- One instrument measures the most popular parameters

DR/850 Colorimeter

- Rugged enough for field use with 50-parameter versatility
- Easy method selection with keypad interface
- One instrument measures a wide range of popular parameters



DR/890 Colorimeter

- Rugged enough for field use with 90-parameter versatility
- Easy method selection with keypad interface
- The industry's most versatile portable colorimeter for a wide range of applications

FEATURES

Number of Parameters	1 or 2 depending on model	20+	50+	90+
Factory Calibrated	Yes	Yes	Yes	Yes
Storage of User Calibration Curves	Yes (most models)	Yes	Yes	Yes
Wavelength Selection	Fixed wavelength	Auto-Select	Auto-Select	Auto-Select
Datalogging	most recent 10 points	up to 50 points	up to 50 points	up to 50 points
Readout Modes	Concentration, absorbance	Concentration, absorbance, %T	Concentration, absorbance, %T	Concentration, absorbance, %T
IP67 Rating (submersible 1 m for 30 mins)	Yes*	Yes	Yes	Yes
PC Interface Available	No	Yes	Yes	Yes
LCD Display	Backlit	Not Backlit	Not Backlit	Not Backlit
Battery Requirements (alkaline or rechargeable)	4 AAA	4 AA	4 AA	4 AA
Nominal Battery Life	2000 tests	6 months of average usage	6 months of average usage	6 months of average usage
LED Source Lamp	Yes	Yes	Yes	Yes
Dimensions	15.5 x 6.1 x 3.5 cm (6.2 x 2.5 x 1.4 in)	23.6 x 8.7 x 4.7 cm (9.3 x 3.4 x 1.9 in)	23.6 x 8.7 x 4.7 cm (9.3 x 3.4 x 1.9 in)	23.6 x 8.7 x 4.7 cm (9.3 x 3.4 x 1.9 in)
Weight	0.23 kg (0.5 lb)	0.45 kg (1 lb)	0.45 kg (1 lb)	0.45 kg (1 lb)
Full List of Parameters and Tests	See pages 56-59	See pages 56-59	See pages 56-59	See pages 56-59
Accessories	Belt Holster/Case	RS-232 Data Transfer Adapter (DTA), hard or soft-sided carrying cases	RS-232 Data Transfer Adapter (DTA), hard or soft-sided carrying cases	RS-232 Data Transfer Adapter (DTA), hard or soft-sided carrying cases

KEY SPECIFICATIONS

Wavelength Calibration	Single wavelength model-specific	1 Fixed wavelength 520 nm	2 Fixed wavelengths 520, 610 nm	4 Fixed wavelengths 420, 520, 560, 610 nm
Wavelength Accuracy	±2 nm (typical)	±1 nm	±1 nm	±1 nm
Spectral Bandwidth	15 nm (typical)	10 nm nominal	10 nm nominal	10 nm nominal
Operating Temperature Range	0 to 50°C (32 to 122°F)	0 to 50°C (32 to 122°F)	0 to 50°C (32 to 122°F)	0 to 50°C (32 to 122°F)
Storage Temperature Range	-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)

*Battery compartment excluded.

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Spectrophotometers and Colorimeters

Quick Reference Guide

The tables on the following 4 pages list test ranges, methods of analysis, and corresponding reagent set Product Numbers. The complete procedure for each test is included in the manual or CD supplied with the instrument. The ranges given are for the pre-calibrated instrument readout; higher ranges can be analyzed by sample dilution.

Parameters marked "EPA" are EPA-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.

See the Parameters Section, pages 115-192, for more information.

Test	EPA	Method	Number	DR 5000 Range	DR 5000	DR 2800	DR 2700	DR 1890	DR 1850	DR 1820	Pocket Colorimeter II	Product Number	Price
Alachlor in Water		Immunoassay	10202	Threshold, low ppb	•	•	•				•	2813000	\$195.00
Aluminum		Aluminon	8012	0.008 - 0.800 mg/L	•	•	•	•	•	•	•	2242000	91.25
Aluminum		Eriochrome Cyanine R	8326	0.002 - 0.250 mg/L	•	•	•					2603700	102.00
Aluminum (TNTplus)		Chromazurol S	10215	0.02 - 0.50 mg/L	•	•						TNT848	51.80
Ammonia, Nitrogen		Salicylate	8155	0.01 - 0.50 mg/L	•	•	•	•	•		•	2668000	78.95
Ammonia, Nitrogen (TNTplus), ULR	•	Salicylate	10205	0.015 - 2.000 mg/L	•	•						TNT830	37.80
Ammonia, Nitrogen	•	Nessler	8038	0.02 - 2.50 mg/L	•	•	•					2458200	53.79
Ammonia, Nitrogen (Test 'N Tube), LR		Salicylate	10023	0.02 - 2.50 mg/L	•	•	•	•	•			2604545	76.19
Ammonia, Nitrogen (TNTplus), LR	•	Salicylate	10205	1-12 mg/L	•	•						TNT831	37.80
Ammonia, Nitrogen (Test 'N Tube), HR		Salicylate	10031	0.4 - 50.0 mg/L	•	•	•	•	•			2606945	69.89
Ammonia, Nitrogen (TNTplus), HR	•	Salicylate	10205	2 - 47 mg/L	•	•						TNT832	37.80
Ammonia, Free, Nitrogen		Indophenol	10200	0.01 - 0.50 mg/L	•	•	•	•	•		•	2879700	73.00
Arsenic	•	Silver Diethyldithiocarbamate	8013	0.020 - 0.200 mg/L	•	•	•					—	—
Atrazine		Immunoassay	10050	Threshold, low ppb	•	•	•				•	2762700	195.00
Barium		Turbidimetric	8014	2 - 100 mg/L	•	•	•					1206499	28.70
Benzotriazole		UV Photolysis	8079	1.0 - 16.0 mg/L	•	•	•	•				2141299	37.95
Boron, LR		Azomethine H	10061	0.02 - 1.50 mg/L	•	•	•	•				2666900	96.79
Boron		Carmine	8015	0.2 - 14.0 mg/L	•	•	•					—	—
Bromine		DPD	8016	0.05 - 4.50 mg/L	•	•	•	•	•	•	•	2105669	18.70
Bromine (AccuVac)		DPD	8016	0.05 - 4.50 mg/L	•	•	•	•	•	•	•	2503025	20.00
Cadmium		Dithizone	8017	0.7 - 80.0 µg/L	•	•	•					2242200	445.00
Cadmium (TNTplus)*		Cadion	10217	0.02 - 0.30 mg/L	•	•						TNT852	51.80
Carbohydrazide		Iron Reduction	8140	5 - 600 µg/L	•	•	•	•				2446600	73.25
Chloramine, Mono, LR		Indophenol	10171/10200	0.04 - 4.50 mg/L	•	•	•	•	•		•	2802246	21.99
Chloramine, Mono (Test 'N Tube), HR		Indophenol	10172	0.1 - 10.0 mg/L	•	•	•					2805145	80.29
Chloride		Mercuric Thiocyanate	8113	0.1 - 25.0 mg/L	•	•	•					2319800	48.15
Chlorine, Free	•	DPD	8021	0.02 - 2.00 mg/L	•	•	•	•	•	•	•	2105569	18.70
Chlorine, Free (AccuVac)	•	DPD	8021	0.02 - 2.00 mg/L	•	•	•	•	•	•	•	2502025	20.00
Chlorine, Free (Pour-Thru Cell)		DPD Rapid Liquid	10059	0.02 - 2.00 mg/L	•	•	•					2556900	40.79
Chlorine, Free (Test 'N Tube)		DPD	10102	0.09 - 5.00 mg/L	•	•	•	•	•	•		2105545	40.50
Chlorine, Free, HR	•	DPD	10069	0.1 - 10.0 mg/L	•	•	•	•	•	•	•	1407099	20.70
Chlorine, Total (Pour-Thru Cell), ULR	•	DPD	8370/10014	2 - 500 µg/L	•	•	•					2563000	36.40
Chlorine, Total	•	DPD	8167	0.02 - 2.00 mg/L	•	•	•	•	•	•	•	2105669	18.70
Chlorine, Total (AccuVac)	•	DPD	8167	0.02 - 2.00 mg/L	•	•	•	•	•	•	•	2503025	20.00
Chlorine, Total (Pour-Thru Cell)		DPD Rapid Liquid	10060	0.02 - 2.00 mg/L	•	•	•					2557000	42.85
Chlorine, Total (Test 'N Tube)		DPD	10101	0.09 - 5.00 mg/L	•	•	•	•	•	•		2105645	40.50
Chlorine, Total, HR	•	DPD	10070	0.1 - 10.0 mg/L	•	•	•	•	•	•	•	1406499	20.70
Chlorine Demand/Requirement		DPD	10223	Multiple Ranges	•	•	•	•	•	•	•	—	—
Chlorine Dioxide, DPD	•	DPD/Glycine	10126	0.04 - 5.00 mg/L	•	•	•	•	•	•	•	2770900	31.80
Chlorine Dioxide, DPD (AccuVac)	•	DPD/Glycine	10126	0.04 - 5.00 mg/L	•	•	•	•	•	•	•	2771000	33.60
Chlorine Dioxide (Europe Only)		Amaranth		20 - 500 µg/L	•	•	•					—	—
Chlorine Dioxide, LR		Chlorophenol Red	8065	0.01 - 1.00 mg/L	•	•	•					2242300	52.00
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	24.05
Chromium, Hexavalent (AccuVac)	•	1,5 Diphenylcarbohydrazide	8023	0.010 - 0.700 mg/L	•	•	•	•			•	2505025	23.35

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

Spectrophotometers and Colorimeters

Quick Reference Guide

Spectrophotometers & Colorimeters

Test	EPA	Method	Number	DR 5000 Range	DR 5000	DR 2800	DR 2700	DR 1800	DR 1850	DR 1820	Product Number	Price
Chromium, Hexavalent and Total (TNTplus)	•*	1,5 Diphenylcarbohydrazide	10218/10219	0.03 - 1.00 mg/L	•	•					TNT854	\$51.80
Chromium, Total		Alkaline Hypobromite Oxidation	8024	0.01 - 0.70 mg/L	•	•	•	•			2242500	104.00
Cobalt		PAN	8078	0.01 - 2.00 mg/L	•	•	•				2651600	109.00
COD, ULR		Reactor Digestion	8000	0.7 - 40.0 mg/L	•	•					2415825	35.20
COD, LR	•	Reactor Digestion	8000	3 - 150 mg/L	•	•	•	•			2125825	35.20
COD, HR	•	Reactor Digestion	8000	20 - 1500 mg/L	•	•	•	•	•		2125925	35.20
COD, HR+		Reactor Digestion	8000	200 - 15,000 mg/L	•	•	•	•	•		2415925	35.20
COD		Manganese III	10067	30 - 1000 mg/L	•	•	•	•	•	•	2623425	35.20
COD (TNTplus), ULR		Reactor Digestion	10211	1 - 60 mg/L	•	•					TNT820	40.00
COD (TNTplus), LR	•	Reactor Digestion	8000	3 - 150 mg/L	•	•					TNT821	40.00
COD (TNTplus), HR	•	Reactor Digestion	8000	20 - 1500 mg/L	•	•					TNT822	40.00
COD (TNTplus), UHR		Reactor Digestion	10212	250 - 15,000 mg/L	•	•					TNT823	40.00
Color		ADMI Weighted Ordinate	10048	3 - 250 units	•						—	—
Color, True and Apparent		Platinum-Cobalt	8025	15 - 500 units	•	•	•	•			—	—
Color, True and Apparent, LR		Platinum-Cobalt	8025	3 - 200 units	•	•	•				—	—
Copper, LR		Porphyrin	8143	2 - 210 µg/L	•	•	•	•			2603300	145.00
Copper	•	Bicinchoninate	8506	0.04 - 5.00 mg/L	•	•	•	•		•	2105869	33.65
Copper (AccuVac)		Bicinchoninate	8026	0.04 - 5.00 mg/L	•	•	•	•		•	2504025	23.35
Cyanide		Pyridine-Pyrazalone	8027	0.002 - 0.240 mg/L	•	•	•	•	•		2430200	63.99
Cyanuric Acid		Turbidimetric	8139	5 - 50 mg/L		•	•	•	•	•	246066	17.85
DEHA (Diethylhydroxylamine)		Iron Reduction	8140	3 - 450 µg/L	•	•	•	•			2446600	73.25
Detergents (Surfactants)		Crystal Violet	8028	0.002 - 0.275 mg/L	•	•	•	•	•		2446800	145.00
Dissolved Oxygen (AccuVac), LR		Indigo Carmine	8316	6 - 800 µg/L	•	•	•	•	•		2501025	22.90
Dissolved Oxygen (AccuVac), HR		HRDO	8166	0.3 - 15.0 mg/L	•	•	•	•	•	•	2515025	22.90
Dissolved Oxygen (AccuVac), UHR		Ultra High Range	8333	1.0 - 40.0 mg/L	•	•	•				2515025	22.90
Erythorbic Acid (Isoascorbic Acid)		Iron Reduction	8140	13 - 1500 µg/L	•	•	•	•			2446600	73.25
Fluoride, Arsenic Free	•**†	SPADNS 2	10225	0.02 - 2.00 mg/L	•	•	•	•	•	•	2947549	18.85
Fluoride, Arsenic Free (AccuVac)	•**†	SPADNS 2	10225	0.02 - 2.00 mg/L	•	•	•	•	•	•	2527025	26.35
Fluoride	•†	SPADNS	8029	0.02 - 2.00 mg/L	•	•	•	•	•	•	44449	16.39
Fluoride (AccuVac)	•†	SPADNS	8029	0.02 - 2.00 mg/L	•	•	•	•	•	•	2506025	22.90
Formaldehyde		MBTH	8110	3 - 500 µg/L	•	•	•				2257700	135.00
Hardness, Total, ULR		Chlorophosphonazo Colorimetric	8374	8 - 1000 µg/L	•	•	•				2603100	172.00
Hardness, Total, ULR (Pour-Thru Cell)		Chlorophosphonazo Rapid Liquid	8374	4 - 1000 µg/L	•	•	•				—	—
Hardness, Ca & Mg		Calmagite Colorimetric	8030	0.05 - 4.00 mg/L	•	•	•	•	•	•	2319900	51.19
Hydrazine		p-Dimethylaminobenzaldehyde	8141	4 - 600 µg/L	•	•	•	•			179032	13.95
Hydrazine (AccuVac)		p-Dimethylaminobenzaldehyde	8141	4 - 600 µg/L	•	•	•	•			2524025	22.90
Hydroquinone		Iron Reduction	8140	9 - 1000 µg/L	•	•	•	•			2446600	73.25
Iodine DPD		DPD	8031	0.07 - 7.00 mg/L	•	•	•				2105669	18.70
Iodine DPD (AccuVac)		DPD	8031	0.07 - 7.00 mg/L	•	•	•				2503025	20.00
Iron		FerroZine	8147	0.009 - 1.400 mg/L	•	•	•	•			230166	15.55
Iron (Pour-Thru Cell)		FerroZine Rapid Liquid	8147	0.009 - 1.400 mg/L	•	•	•				230149	52.99
Iron, Ferrous		1,10 Phenanthroline	8146	0.02 - 3.00 mg/L	•	•	•	•	•	•	103769	19.15
Iron, Ferrous (AccuVac)		1,10 Phenanthroline	8146	0.02 - 3.00 mg/L	•	•	•	•	•	•	2514025	23.35
Iron, Total		FerroMo	8365	0.01 - 1.80 mg/L	•	•	•	•	•		2544800	100.00
Iron, Total		TPTZ	8112	0.012 - 1.800 mg/L	•	•	•	•	•	•	2608799	25.25
Iron, Total (AccuVac)		TPTZ	8112	0.012 - 1.800 mg/L	•	•	•	•	•	•	2510025	23.35
Iron, Total	•	FerroVer	8008	0.02 - 3.00 mg/L	•	•	•	•	•	•	2105769	17.29
Iron, Total (AccuVac)	•	FerroVer	8008	0.02 - 3.00 mg/L	•	•	•	•	•	•	2507025	23.35
Isoascorbic Acid (Erythorbic Acid) (ISA)		Iron Reduction	8140	13 - 1500 µg/L	•	•	•	•			2446600	73.25
Lead		LeadTrak Fast Column Extraction	8317	5 - 150 µg/L	•	•	•			•	2375000	167.00
Lead	•	Dithizone	8033	3 - 300 µg/L	•	•	•				2243100	495.00

*EPA approved for Cr⁶⁺ only. **Per 40 CFR 136.6 Method Modification and Flexibility. †Not EPA accepted for drinking water using DR/800 Series colorimeters.

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Test	EPA Method	Number	DR 5000 Range	DR 5000	DR 2800	DR 2700	DR1800	DR1850	DR1820	Pocket Colorimeter II	Product Number	Price
Lead (TNTplus)*	PAR	10216	0.1 - 2.0 mg/L	•	•						TNT850	\$51.80
Manganese, LR	PAN	8149	0.006 - 0.700 mg/L	•	•	•	•				2651700	40.51
Manganese, HR	• Periodate Oxidation	8034	0.1 - 20.0 mg/L	•	•	•	•	•	•		2430000	46.49
Mercury	Cold Vapor Mercury Concentration	10065	0.1 - 2.5 µg/L	•	•	•					2658300	135.00
Methylethylketoxime (MEKO)	Iron Reduction	8140	15 - 1000 µg/L	•	•	•	•				2446600	73.25
Molybdenum, Molybdate, LR	Ternary Complex	8169	0.02 - 3.00 mg/L	•	•	•	•	•			2449400	44.29
Molybdenum, Molybdate, HR	Mercaptoacetic Acid	8036	0.2 - 40.0 mg/L	•	•	•	•				2604100	73.45
Molybdenum, Molybdate (AccuVac), HR	Mercaptoacetic Acid	8036	0.2 - 40.0 mg/L	•	•	•	•				—	—
Nickel	PAN	8150	0.006 - 1.000 mg/L	•	•	•	•			•	2651600	109.00
Nickel	• Heptoxime	8037	0.02 - 1.80 mg/L	•	•	•					2243500	191.00
Nickel (TNTplus)*	Dimethylglyoxime	10220	0.1 - 6.0 mg/L	•	•						TNT856	51.80
Nitrate, Nitrogen, LR	Cadmium Reduction	8192	0.01 - 0.50 mg/L	•	•	•	•	•	•		2429800	58.55
Nitrate, Nitrogen (TNTplus), LR	Dimethylphenol	10206	0.23 - 13.5 mg/L	•	•						TNT835	30.00
Nitrate, Nitrogen, MR	Cadmium Reduction	8171	0.1 - 10.0 mg/L	•	•	•	•				2106169	30.79
Nitrate, Nitrogen (AccuVac), MR	Cadmium Reduction	8171	0.1 - 10.0 mg/L	•	•	•	•				2511025	23.15
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	58.29
Nitrate, Nitrogen, HR	Cadmium Reduction	8039	0.3 - 30.0 mg/L	•	•	•	•	•	•		2106169	30.79
Nitrate, Nitrogen (AccuVac), HR	Cadmium Reduction	8039	0.3 - 30.0 mg/L	•	•	•	•	•	•		2511025	23.15
Nitrate, Nitrogen (TNTplus), HR	Dimethylphenol	10206	5 - 35 mg/L	•	•						TNT836	30.00
Nitrite, Nitrogen, LR	• Diazotization	8507	0.002 - 0.300 mg/L	•	•	•	•	•	•		2107169	27.25
Nitrite, Nitrogen (AccuVac), LR	• Diazotization	8507	0.002 - 0.300 mg/L	•	•	•	•	•	•		2512025	23.15
Nitrite, Nitrogen (Test 'N Tube), LR	• Diazotization	10019	0.003 - 0.500 mg/L	•	•	•	•	•	•		2608345	42.50
Nitrite, Nitrogen (TNTplus), LR	• Diazotization	10207	0.015 - 0.600 mg/L	•	•						TNT839	25.80
Nitrite, Nitrogen, HR	Ferrous Sulfate	8153	2 - 250 mg/L	•	•	•	•				2107569	29.29
Nitrogen, Ammonia (See Ammonia, Nitrogen)												
Nitrogen, Total (Test 'N Tube), LR	Persulfate Digestion	10071	0.5 - 25.0 mg/L	•	•	•	•				2672245	99.95
Nitrogen, Total (TNTplus), LR	Persulfate Digestion	10208	1 - 16 mg/L	•	•						TNT826	51.80
Nitrogen, Total (TNTplus), HR	Persulfate Digestion	10208	5 - 40 mg/L	•	•						TNT827	51.80
Nitrogen, Total (Test 'N Tube), HR	Persulfate Digestion	10072	2 - 150 mg/L	•	•	•	•				2714100	107.00
Nitrogen, Total (TNTplus), UHR	Persulfate Digestion	10208	20 - 100 mg/L	•	•						TNT828	51.80
Nitrogen, Total Inorganic (TIN) (Test 'N Tube)	Titanium Trichloride Reduction	10021	0.2 - 25.0 mg/L	•	•	•	•	•			2604945	75.55
Nitrogen, Total Kjeldahl (TKN)	Nessler		1 - 150 mg/L	•	•	•	•				2495300	130.00
Organic Carbon, Total (See TOC)												
Organic Constituents, UV-Absorbing	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	23.90
Ozone (AccuVac), MR	Indigo	8311	0.01 - 0.75 mg/L	•	•	•	•	•	•		2517025	23.90
Ozone (AccuVac), HR	Indigo	8311	0.01 - 1.50 mg/L	•	•	•	•	•	•		2518025	23.90
PCB (Polychlorinated Biphenyls) in Soil**	Immunoassay	10050	Threshold, ppm	•	•	•				•	2773500	207.00
pH	Colorimetric Phenol Red	10076	6.5 - 8.5 units				•	•	•	•	2657512	9.79
Phenols	• 4-Aminoantipyrine	8047	0.002 - 0.200 mg/L	•	•	•					2243900	515.00
Phosphonates	Persulfate UV Oxidation	8007	Multiple Ranges	•	•	•	•	•	•		2429700	60.15
Phosphorus, Reactive	• PhosVer 3	8048	0.02 - 2.50 mg/L	•	•	•	•	•	•		2106069	24.29
Phosphorus, Reactive (AccuVac)	• PhosVer 3	8048	0.02 - 2.50 mg/L	•	•	•	•	•	•		2508025	23.15

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

**Requires Soil Extraction Kit. Please order Prod. No. 2775100. (Included with Pocket Colorimeter II).

Spectrophotometers and Colorimeters

Quick Reference Guide

Spectrophotometers & Colorimeters

Test	EPA Method	Number	DR 5000 Range	DR 5000	DR 2800	DR 2700	DR 1800	DR 1850	DR 1820	Pocket Colorimeter II	Product Number	Price
Phosphorus, Reactive (Test 'N Tube)	• PhosVer 3	8048	0.06 - 5.00 mg/L	•	•	•	•	•			2742545	\$34.19
Phosphorus, Reactive	Amino Acid	8178	0.23 - 30.00 mg/L	•	•	•	•	•	•		2244100	23.39
Phosphorus, Reactive	Molybdovanadate	8114	0.3 - 45.0 mg/L	•	•	•	•				2076032	11.59
Phosphorus, Reactive (AccuVac)	Molybdovanadate	8114	0.3 - 45.0 mg/L	•	•	•	•				2525025	23.15
Phosphorus, Reactive (Test 'N Tube), HR	Molybdovanadate	8114	1.0 - 100.0 mg/L	•	•	•	•				2767345	50.45
Phosphorus, Reactive (Pour-Thru Cell), HR	Molybdovanadate Rapid Liquid	8114	0.3 - 45.0 mg/L	•	•	•					2076049	20.35
Phosphorus, Reactive (Pour-Thru Cell), LR	• Ascorbic Acid Rapid Liquid	10055	19 - 3000 µg/L	•	•	•					2678600	51.40
Phosphorus, Reactive (TNTplus)	Molybdovanadate	10214	5.0 - 90.0 mg/L	•	•						TNT846	25.80
Phosphorus, Acid Hydrolyzable (Test 'N Tube)	PhosVer 3 with Acid Hydrolysis	8180	0.06 - 3.50 mg/L	•	•	•	•	•			2742645	47.19
Phosphorus, Total (Test 'N Tube)	• PhosVer 3 with Acid Persulfate Digestion	8190	0.06 - 3.50 mg/L	•	•	•	•	•			2742645	47.19
Phosphorus, Total (Test 'N Tube), HR	Molybdovanadate with Acid Persulfate Digestion	10127	1.0 - 100.0 mg/L	•	•	•	•				2767245	70.45
Phosphorus, Reactive and Total (TNTplus), LR	• Ascorbic Acid	10209/10210	0.15 - 4.50 mg/L	•	•						TNT843	37.80
Phosphorus, Reactive and Total, (TNTplus), HR	• Ascorbic Acid	10209/10210	1.5 - 15.0 mg/L	•	•						TNT844	37.80
Phosphorus, Reactive and Total, (TNTplus), UHR	• Ascorbic Acid	10209/10210	6 - 60 mg/L	•	•						TNT845	37.80
Potassium	Tetraphenylborate	8049	0.1 - 7.0 mg/L	•	•	•					2459100	132.00
Quaternary Ammonium Compounds	Direct Binary Complex	8337	0.2 - 5.0 mg/L	•	•	•					2459200	122.00
Selenium	Diaminobenzidine	8194	0.01 - 1.00 mg/L	•	•	•					2244200	195.00
Silica (Pour-Thru Cell), ULR	Heteropoly Blue	8282	3 - 1000 µg/L	•	•	•					2553500	71.49
Silica (Pour-Thru Cell), ULR	Heteropoly Blue Rapid Liquid	8282	3 - 1000 µg/L	•	•	•					2678500	74.30
Silica, LR	Heteropoly Blue	8186	0.010 - 1.600 mg/L	•	•	•	•	•			2459300	49.00
Silica, HR	Silicomolybdate	8185	1 - 100 mg/L	•	•	•	•		•		2429600	57.05
Silver	Colorimetric	8120	0.005 - 0.700 mg/L	•	•	•					2296600	88.00
Sulfate	• SulfaVer 4	8051	2 - 70 mg/L	•	•	•	•	•	•	•	2106769	23.09
Sulfate (AccuVac)	• SulfaVer 4	8051	2 - 70 mg/L	•	•	•	•	•	•	•	2509025	22.90
Sulfate (TNTplus), LR	Turbidimetric	10227	40 - 150 mg/L	•	•						TNT864	49.00
Sulfate (TNTplus), HR	Turbidimetric	10227	150 - 900 mg/L	•	•						TNT865	49.00
Sulfide	• Methylene Blue	8131	5 - 800 µg/L	•	•	•	•	•			2244500	39.50
Sulfite (Europe only)	Colorimetric		0.10 - 5.00 mg/L	•	•	•					—	—
Surfactants (See Detergents)												
Suspended Solids	Photometric	8006	5 - 750 mg/L	•	•	•	•	•			—	—
Tannin & Lignin	Tyrosine	8193	0.1 - 9.0 mg/L	•	•	•	•	•			2244600	64.85
TOC (Total Organic Carbon), LR	Direct Method	10129	0.3 - 20.0 mg/L	•	•	•	•	•			2760345	313.00
TOC (Total Organic Carbon), MR	Direct Method	10173	15 - 150 mg/L	•	•	•	•	•			2815945	313.00
TOC (Total Organic Carbon), HR	Direct Method	10128	100 - 700 mg/L	•	•	•	•	•			2760445	313.00
Tolyltriazole	UV Photolysis	8079	1.0 - 20.0 mg/L	•	•	•	•				2141299	37.95
Toxicity	ToxTrak	10017	0 - 100 % inhibition	•	•	•	•	•			2597200	110.00
TPH in Soil**	Immunoassay	10050	Threshold ppm	•	•	•			•		2774300	195.00
TPH in Water	Immunoassay	10050	Threshold ppm	•	•	•			•		2774300	195.00
Trihalomethanes (THM)	THM Plus	10132	10 - 600 µg/L	•	•	•					2790800	449.00
Trihalomethane Formation Potential (THMFP)	THM Plus	10224	10 - 600 µg/L	•	•	•					2790800	449.00
Volatile Acids	Esterification	8196	27 - 2800 mg/L	•	•	•	•	•	•		2244700	96.00
Zinc	• Zincon	8009	0.01 - 3.00 mg/L	•	•	•	•	•	•	•	2429300	45.09

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