HI83399 Parameter Specifications

Parameter	Range	Resolution	Accuracy	Wavelength	Method	Reagent Code
Alkalinity	0 to 500 mg/L (as $CaCO_3$)	1 mg/L	±5 mg/L ±5% of reading at 25 °C	610 nm	Bromocresol Green	**HI775-26** Reagents for 25 tests
Alkalinity, Marine	0 to 300 mg/L (as $CaCO_3$)	1 mg/L	±5 mg/L ±5% of reading at 25 °C	610 nm	Bromocresol Green	**HI755-26** Reagents for 25 tests
Aluminum	0.00 to 1.00 mg/L (as Al^{3+})	0.01 mg/L	±0.04 mg/L ±4% of reading at 25 °C	525 nm	Adaptation of the Aluminon Method	**HI93712-01** Reagents for 100 tests **HI93712-03** Reagents for 300 tests
Ammonia, Marine	0.00 to 2.50 ppm (as NH_3)	0.01ppm	±0.05 ppm ±5% of reading at 25 °C	610 nm	Adaptation of the Salicylate Method	**HI784-25** Reagents for 25 tests
Ammonia Low Range	0.00 to 3.00 mg/L (as NH_3-N)	0.01 mg/L	±0.04 mg/L ±4% of reading at 25 °C	420 nm	Adaptation of the ASTM Manual of Water and Environmental Technology, D1426 Nessler Method	**HI93700-01** Reagents for 100 tests **HI93700-03** Reagents for 300 tests
Ammonia Low Range (13 mm Vial)	0.00 to 3.00 mg/L (as NH_3-N)	0.01 mg/L	± 0.10 mg/L or ± 5% of reading at 25 °C, whichever is greater	420 nm	Adaptation of the ASTM Manual of Water and Environmental Technology, D1426 Nessler Method	**HI93764A-25** Reagents for 25 tests
Ammonia Medium Range	0.00 to 10.00 mg/L (as NH_3-N)	0.01 mg/L	± 0.05 mg/L ± 5% of reading at 25 °C, whichever is greater	420 nm	Adaptation of the ASTM Manual of Water and Environmental Technology, D1426, Nessler Method	**HI93715-01** Reagents for 100 tests **HI93715-03** Reagents for 300 tests
Ammonia High Range	0.0 to 100.0 mg/L (as NH_3-N)	0.1 mg/L	±0.5 mg/L ± 5% of reading at 25 °C	420 nm	Adaptation of the ASTM Manual of Water and Environmental Technology, D1426, Nessler Method	**HI93733-01** Reagents for 100 tests **HI93733-03** Reagents for 300 tests
Ammonia High Range (13 mm Vial)	0.0 to 100.0 mg/L (as NH_3-N)	0.1 mg/L	± 1.0 mg/L or ± 5% of reading at 25 °C, whichever is greater	420 nm	Adaptation of the ASTM Manual of Water and Environmental Technology, D1426 Nessler Method	**HI93764B-25** Reagents for 25 tests
Bromine	0.00 to 8.00 mg/L (as Br_2)	0.01 mg/L	±0.08 mg/L ±3% of reading at 25 °C	525 nm	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th Edition, DPD Method	**HI93716-01** Reagents for 100 tests **HI93716-03** Reagents for 300 tests
Calcium	0 to 400 mg/L (as Ca^{2+})	1 mg/L	±10 mg/L ±5% of reading at 25 °C	466 nm	Adaptation of the Oxalate Method	**HI937521-01** Reagents for 50 tests **HI937521-03** Reagents for 150 tests
Calcium, Marine	200 to 600 mg/L (as Ca^{2+})	1 mg/L	±6% of reading at 25 °C	610 nm	Adaptation of the Zincon Method	**HI758-26** Reagents for 25 tests
Chloride	0.0 to 20.0 mg/L (as Cl^-)	0.1 mg/L	±0.5 mg/L ±6% of reading at 25 °C	466 nm	Adaptation of the Mercury (II) Thiocyanate Method	**HI93753-01** Reagents for 100 tests **HI93753-03** Reagents for 300 tests
Chloride, Low Range	0.0 to 100.0 mg/L (as Cl^-)	0.1 mg/L	±0.5 mg/L ± 6% of reading at 25°C	466 nm	Adaptation of Standard Methods for the Examination of Water and Wastewater, 24th Edition, 4500-Cl- Mercury Thiocyanate Method	**HI96793-25**
Chloride, High Range	80 to 1000 mg/L (as Cl^-)	1 mg/L	±5 mg/L ± 6% of reading at 25°C	466 nm	Adaptation of Standard Methods for the Examination of Water and Wastewater, 24th Edition, 4500-Cl- Mercury Thiocyanate Method	**HI96794-25**
Chlorine Dioxide	0.00 to 2.00 mg/L (as ClO_2)	0.01 mg/L	±0.10 mg/L ±5% of reading at 25 °C	575 nm	Adaptation of the Chlorophenol Red Method	**HI93738-01** Reagents for 100 tests **HI93738-03** Reagents for 300 tests
Chlorine Dioxide (Rapid)	0.00 to 2.00 mg/L (as ClO_2)	0.01 mg/L	±0.10 mg/L ±5% of reading at 25 °C	525 nm	Adaptation of Standard Methods for the Examination of Water and Wastewater, 18th Edition, 4500 ClO_2 D	**HI96779-01** Reagents for 100 tests **HI96779-03** Reagents for 300 tests
Chlorine, Free Ultra Low Range	0.000 to 0.500 mg/L (as Cl_2)	0.001 mg/L	±0.020 mg/L ±3% of reading at 25 °C	525 nm	Adaptation of the Standard Method 4500-Cl G	**HI95762-01** Reagents for 100 tests **HI95762-03** Reagents for 300 tests
Chlorine, Free	0.00 to 5.00 mg/L (as Cl_2)	0.01 mg/L	±0.03 mg/L ±3% of reading at 25 °C	525 nm	Adaptation of the EPA DPD Method 330.5	**HI93701-F** Reagents for 300 tests (liquid) **HI93701-01** Reagents for 100 tests (powder) **HI93701-03** Reagents for 300 tests (powder)
Chlorine, Total Ultra Low Range	0.000 to 0.500 mg/L (as Cl_2)	0.001 mg/L	±0.020 mg/L ±3% of reading at 25 °C	525 nm	Adaptation of the EPA DPD Method 330.5	**HI95761-01** Reagents for 100 tests **HI95761-03** Reagents for 300 tests