

\* HI 83300 측정 범위 및 시약정보

	범위	최소 측정 단위	정확도 (at 25 °C)	측정방법	파장	시약 [ Code ]	시약 회분
Absorbance	0.000 to 4.000 Abs	0.001 Abs	+/-0.003Abs @ 1.000 Abs				
Alkalinity	0 to 500 mg/L (as CaCO <sub>3</sub> )	1 mg/L	±5 mg/L ±5% of reading	Colorimetric Method	610 nm	HI 775-26	25
Alkalinity, Marine	0 to 300 mg/L (as CaCO <sub>3</sub> )	1 mg/L	±5 mg/L ±5% of reading	Colorimetric Method	610 nm	HI 755-26	25
Aluminum	0.00 to 1.00 mg/L (as Al <sup>3+</sup> )	0.01 mg/L	±0.04 mg/L ±4% of reading	Adaptation of the aluminon method.	525 nm	HI 93712-01	100
Ammonia, Low Range	0.00 to 3.00 mg/L (as NH <sub>3</sub> -N)	0.01 mg/L	±0.04 mg/L ±4% of reading	Adaptation of the ASTM Manual of Water and Environmental Technology, D1426 Nessler method.	420 nm	HI 93700-01	100
Ammonia, Medium Range	0.00 to 10.00 mg/L (as NH <sub>3</sub> -N)	0.01 mg/L	±0.05 mg/L ±5% of reading	Adaptation of the ASTM Manual of Water and Environmental Technology, D1426, Nessler method	420 nm	HI 93715-01	100
Ammonia, High Range	0.0 to 100.0 mg/L (as NH <sub>3</sub> -N)	0.1 mg/L	±0.5 mg/L ±5% of reading	Adaptation of the ASTM Manual of Water and Environmental Technology, D1426, Nessler method	420 nm	HI 93733-01	100
Bromine	0.00 to 8.00 mg/L (as Br <sub>2</sub> )	0.01 mg/L	±0.08 mg/L ±3% of reading	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, DPD method	525 nm	HI 93716-01	100
Calcium	0 to 400 mg/L (as Ca <sup>2+</sup> )	1 mg/L	±10 mg/L ±5% of reading	Adaptation of the Oxalate method	466nm	HI 937521-01	50
Calcium, Marine	200 to 600 mg/L (as Ca <sup>2+</sup> )	1 mg/L	±6% of reading	Adaptation of the Zincon method	610 nm	HI 758-26	25
Chloride	0.0 to 20.0 mg/L (as Cl)	0.1 mg/L	±0.5 mg/L ±6% of reading	Adaptation of the mercury(II) thiocyanate method	466 nm	HI 93753-01	100
Chlorine Dioxide	0.00 to 2.00 mg/L (as ClO <sub>2</sub> )	0.01 mg/L	±0.10 mg/L ±5% of reading	Adaptation of the Chlorophenol Red method	575 nm	HI 93738-01	100
Chlorine, Free	0.00 to 5.00 mg/L (as Cl <sub>2</sub> )	0.01 mg/L	±0.03 mg/L ±3% of reading	Adaptation of the EPA DPD method 330.5	525 nm	HI 93701-01	100
Chlorine, Free Ultra Low Range	0.000 to 0.500 mg/L (as Cl <sub>2</sub> )	0.001 mg/	±0.020 mg/L ±3% of reading	Adaptation of the Standard Method 4500-Cl G	525 nm	HI 95762-01	100
Chlorine, Total	0.00 to 5.00 mg/L (as Cl <sub>2</sub> )	0.01 mg/L	±0.03 mg/L ±3% of reading	Adaptation of the EPA DPD method 330.5	525 nm	HI 93711-01	100

Chlorine, Total Ultra Low Range	0.000 to 0.500 mg/L (as Cl <sub>2</sub> )	0.001 mg/L	±0.020 mg/L ±3% of reading	Adaptation of the EPA recommended Method 330.5	525 nm	HI 95761-01	100
Chlorine, Total Ultra High Range	0 to 500 mg/L (as Cl <sub>2</sub> )	1 mg/L	±3 mg/L ±3% of reading	Adaptation of the Standard Methods for Examination of Water and Wastewater, 20th edition, 4500-Cl	525 nm	HI 95771-01	100
Chromium (VI), Low Range	0 to 300 µg/L (as Cr(VI))	1 µg/L	±10 µg/L ±4% of reading	Adaptation of the ASTM Manual of Water and Environmental Technology, D1687 Diphenylcarbohydrazide method	525 nm	HI 93749-01	100
Chromium (VI), High Range	0 to 1000 µg/L (as Cr(VI))	1 µg/L	±5 µg/L ±4% of reading at 25 °C	Adaptation of the ASTM Manual of Water and Environmental Technology, D1687, Diphenylcarbohydrazide method	525 nm	HI 93723-01	100
Color of Water	0 to 500 PCU (Platinum Cobalt Units)	1 PCU	±10 PCU ±5% of reading	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, Colorimetric Platinum Cobalt method	420 nm		
Copper, Low Range	0.000 to 1.500 mg/L (as Cu)	0.001 mg/L	±0.010 mg/L ±5% of reading	Adaptation of the EPA method	575 nm	HI 95747-01	100
Copper, High Range	0.00 to 5.00 mg/L (as Cu)	0.01 mg/L	±0.02 mg/L ±4% of reading	Adaptation of the EPA method	575 nm	HI 93702-01	100
Cyanuric Acid	0 to 80 mg/L (as CYA)	1 mg/L	±1 mg/L ±15% of reading	Adaptation of the turbidimetric method	525 nm	HI 93722-01	100
Fluoride, Low Range	0.00 to 2.00 mg/L (as F)	0.01 mg/L	±0.03 mg/L ±3% of reading	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, SPADNS method	575 nm	HI 93729-01	100
Fluoride, High Range	0.0 to 20.0 mg/L (as F)	0.1 mg/L	±0.5 mg/L ±3% of reading	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, SPADNS method	575 nm	HI 93739-01	100
Hardness, Calcium	0.00 to 2.70 mg/L (as CaCO <sub>3</sub> )	0.01 mg/L	±0.11 mg/L ±5% of reading	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, Calmagite method	525 nm	HI 93720-01	100
Hardness, Magnesium	0.00 to 2.00 mg/L (CaCO <sub>3</sub> )	0.01 mg/L	±0.11 mg/L ±5% of reading	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, EDTA Colorimetric method	525 nm	HI 93719-01	100
Hardness, Total Low Range	0 to 250 mg/L (as CaCO <sub>3</sub> )	1 mg/L	±5 mg/L ±4% of reading	Adaptation of the EPA recommended method 130.1	466 nm	HI 93735-00	100
Hardness, Total Medium Range	200 to 500 mg/L (as CaCO <sub>3</sub> )	1 mg/L	±7 mg/L ±3% of reading	Adaptation of the EPA recommended method 130.1	466 nm	HI 93735-01	100
Hardness, Total High Range	400 to 750 mg/L (as CaCO <sub>3</sub> )	1 mg/L	±10 mg/L ±2% of reading	Adaptation of the EPA recommended method 130.1	466 nm	HI 93735-02	100

Hydrazine	0 to 400 µg/L (as N <sub>2</sub> H <sub>4</sub> )	1 µg/L	±4% of full scale reading	Adaptation of the ASTM Manual of Water and Environmental Technology, method D1385, p-Dimethylaminobenzaldehyde method	466 nm	HI 93704-01	100
Iodine	0.0 to 12.5 mg/L (as I <sub>2</sub> )	0.1 mg/L	±0.1 mg/L ±5% of reading	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, DPD method	525 nm	HI 93718-01	100
Iron, Low Range	0.000 to 1.600 mg/L (as Fe)	0.001 mg/L	±0.010 mg/L ±8% of reading	Adaptation of the TPTZ Method	575 nm	HI 93746-01	100
Iron, High Range	0.00 to 5.00 mg/L (as Fe)	0.01 mg/L	±0.04 mg/L ±2% of reading	Adaptation of the EPA Phenanthroline method 315B, for natural and treated waters	525 nm	HI 93721-01	100
Magnesium	0 to 150 mg/L (as Mg <sup>2+</sup> )	1 mg/L	±5 mg/L ±3% of reading	Adaptation of the Calmagite method	466 nm	HI 937520-01	50
Manganese, Low Range	0 to 300 µg/L (as Mn)	1 µg/L	±10 µg/L ±3% of reading	Adaptation of the PAN Method	575 nm	HI 93748-01	50
Manganese, High Range	0.0 to 20.0 mg/L (as Mn)	0.1 mg/L	±0.2 mg/L ±3% of reading	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, Periodate method	525 nm	HI 93709-01	100
Molybdenum	0.0 to 40.0 mg/L (as Mo <sup>6+</sup> )	0.1 mg/L	±0.3 mg/L ±5% of reading	Adaptation of the mercaptoacetic acid method	420 nm	HI 93730-01	100
Nickel, Low Range	0.000 to 1.000 mg/L (as Ni)	0.001 mg/L	±0.010 mg/L ±7% of reading	Adaptation of the PAN method	575 nm	HI 93740-01	50
Nickel, High Range	0.00 to 7.00 g/L (as Ni)	0.01 g/L	±0.07g/L ±4% of reading	Adaptation of the photometric method	575 nm	HI 93726-01	100
Nitrate	0.0 to 30.0 mg/L (as NO <sub>3</sub> - N)	0.1 mg/L	±0.5 mg/L ±10% of reading	Adaptation of the cadmium reduction method	525 nm	HI 93728-01	100
Nitrite, Marine Ultra Low Range	0 to 200 µg/L (as NO <sub>2</sub> -N)	1 µg/L	±10 µg/L ±4% of reading	Adaptation of the EPA Diazotization method 354.1	466 nm	HI 764-25	25
Nitrite, Low Range	0 to 600 µg/L (as NO <sub>2</sub> -N)	1 µg/L	±20 µg/L ±4% of reading	Adaptation of the EPA Diazotization method 354.1	466 nm	HI 93707-01	100
Nitrite, High Range	0 to 150 mg/L (as NO <sub>2</sub> <sup>-</sup> )	1 mg/L	±4 mg/L ±4% of reading	Adaptation of the Ferrous Sulfate method	575 nm	HI 93708-01	100
Oxygen, Dissolved	0.0 to 10.0 mg/L (as O <sub>2</sub> )	0.1 mg/L	±0.4 mg/L ±3% of reading	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, Azide modified Winkler method	420 nm	HI 93732-01	100
Oxygen Scavengers (Carbohydrazide)	0.00 to 1.50 mg/L (as Carbohydrazide)	0.01 mg/L	±0.02 mg/L ±3% of reading	Adaptation of the iron reduction method	575 nm	HI 96773-01	50

Oxygen Scavengers (Diethylhydroxylamine) (DEHA)	0 to 1000 µg/L (as DEHA)	1 µg/L	±5 µg/L ±5% of reading	Adaptation of the iron reduction method	575 nm	HI 96773-01	50
Oxygen Scavengers (Hydroquinone)	0.00 to 2.50 mg/L (as Hydroquinone)	0.01 mg/L	±0.04 mg/L ±3% of reading	Adaptation of the iron reduction method	575 nm	HI 96773-01	50
Oxygen Scavengers (Iso-ascorbic Acid)	0.00 to 4.50 mg/L (as Iso-ascorbic acid)	0.01 mg/L	±0.03 mg/L ±3 % of reading	Adaptation of the iron reduction method	575 nm	HI 96773-01	50
Ozone	0.00 to 2.00 mg/L (as O <sub>3</sub> )	0.01 mg/L	±0.02 mg/L ±3% of reading	Colorimetric DPD Method	525 nm	HI 93757-01	100
pH	6.5 to 8.5 pH	0.1 pH	±0.1 pH	Adaptation of the Phenol Red method	525 nm	HI 93710-01	100
Phosphate, Marine Ultr Low Range	0 to 200 µg/L (as P)	1 µg/L	±5 µg/L ±5% of reading	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 20th edition, Ascorbic Acid method	610 nm	HI 736-25	25
Phosphate, Low Range	0.00 to 2.50 mg/L (as PO <sub>4</sub> <sup>3-</sup> )	0.01 mg/L	±0.04 mg/L ±4% of reading	Adaptation of the Ascorbic Acid method	610 nm	HI 93713-01	100
Phosphate, High Range	0.0 to 30.0 mg/L (as PO <sub>4</sub> <sup>3-</sup> )	0.1 mg/L	±1.0 mg/L ±4% of reading	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, Amino Acid method	525 nm	HI 93717-01	100
Potassium	0.0 to 20.0 mg/L (as K)	0.1 mg/L	±3.0 mg/L ±7% of reading	Adaptation of the Turbidimetric Tetraphenylborate method	466 nm	HI 93750-01	100
Silica, Low Range	0.00 to 2.00 mg/L (as SiO <sub>2</sub> )	0.01 mg/L	±0.03 mg/L ±3% of reading	Adaptation of the ASTM Manual of Water and Environmental Technology, D859, Heteropoly Molybdenum Blue method	610 nm	HI 93705-01	100
Silica, High Range	0 to 200 mg/L (as SiO <sub>2</sub> )	1 mg/L	±1 mg/L ±5% of reading	Adaptation of the USEPA Method 370.1 for drinking, surface and saline waters, domestic and industrial wastes and Standard Method 4500-SiO <sub>2</sub>	466 nm	HI 96770-01	100
Silver	0.000 to 1.000 mg/L (as Ag)	0.001 mg/L	±0.020 mg/L ±5% of reading	Adaptation of the PAN method	575 nm	HI 93737-01	50
Sulfate	0 to 150 mg/L (as SO <sub>4</sub> <sup>2-</sup> )	1 mg/L	±5 mg/L ±3% of reading	Sulfate is precipitated with barium chloride crystals	466 nm	HI 93751-01	100
Surfactants, Anionic	0.00 to 3.50 mg/L (as SDBS)	0.01 mg/L	±0.04 mg/L ±3% of reading	Adaptation of the USEPA method 425.1 and Standard Methods for the Examination of Water and Wastewater, 20th edition, 5540C, Anionic Surfactants as MBAS	610 nm	HI 95769-01	40
Zinc	0.00 to 3.00 mg/L (as Zn)	0.01 mg/L	±0.03 mg/L ±3% of reading	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, Zincon method	575 nm	HI 93731-01	100