



DA 3500 Discrete Analyzer Chemistry Specifications

Method Detection Limits (MDLs),
Ranges, and Reference Methods

Analyte	MDL	Range	Reference
Alkalinity*	10 mg CaCO ₃ /L	20–200 mg CaCO ₃ /L	EPA Method 310.2
Ammonia*	0.006 mg N/L	0.020–10.0 mg N/L	EPA Method 350.1
Calcium*	1.0 mg Ca/L	5–100 mg Ca/L	Cresolphthalein
Chloride*	0.9 mg Cl/L	5.0–50 mg Cl/L	EPA Method 325.2; SM 4500 Cl E
Chromium (VI)*	0.008 mg Cr(VI)/L	0.05–1.0 mg Cr(VI)/L	SM 3500-Cr
Cyanide, Total	0.002 mg CN/L	0.005–0.5 mg CN/L	SM 4500 CN E
Cyanide, Total	0.01 mg CN/L	0.05–0.5 mg CN/L	EPA Method 335.2
Fluoride*	0.15 mg F/L	0.25–2.0 mg F/L	EPA Method 340.1
Hardness	2.0 mg CaCO ₃ /L		Calculated
Iron*	0.02 mg Fe/L	0.01–2.5 mg Fe/L	Ferrozine
Magnesium*	1.0 mg Mg/L	5–50 mg Mg/L	Xylidyl Blue
Nitrate/Nitrite*	0.04 mg N/L	0.1–5.0 mg N/L	EPA Method 353.3
Nitrite*	0.002 mg N/L	0.010–0.25 mg N/L	SM 4500 NO ₂ -B
Nitrogen, Total Kjeldahl (TKN)	0.1 mg N/L	0.5–10 mg N/L	EPA Method 351.2
Phenolics	0.05 mg/L	0.5–5 mg/L	EPA Method 420.1
Phenolics	0.02 mg/L	0.05–2.0 mg/L	EPA Method 420.2
Orthophosphate*	0.020 mg P/L	0.050–1.0 mg P/L	SM 4500 P E
Orthophosphate*	0.002 mg P/L	0.005–0.10 mg P/L	EPA Method 365.4
Phosphorus, Total	0.01 mg P/L	0.050–1.0 mg P/L	EPA Method 365.3
Silica*	0.6 mg SiO ₂ /L	2.00–20 mg SiO ₂ /L	EPA Method 370.1
Sulfate*	1.0 mg SO ₄ /L	5.0–50 mg SO ₄ /L	SM 4500 SO ₄
Sulfide*	0.03 mg S/L	0.1–2.0 mg S/L	SM 4500 S D

* Ranges can be extended to higher concentrations using automatic dilution.



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