

Aquakem Applications

| Chemistry | Aquakem Discrete Analyser | | | | | |
|------------------------|--|----------------|--|----------|-------------------|--------------------|
| | SCA Blue Book | EPA Method | Reagents | MDL mg/L | Working ranges | |
| | | | | | Typical Low range | Typical High range |
| Alkalinity | ISBN00117516015 SMWW 2320B | 310.2 | Methyl orange | 2.6000 | 0-300 | N/A |
| Aluminium | SMWW 3500 Al D | 3500 Al D | Phenanthroline/ Pyrocatecol Violet/Hexamine | 0.0100 | 0-0.3 | N/A |
| Ammonia as N | ISBN 0117516139 SMWW 4500NH3 H | 350.1 | Phenolate / Hypochlorite / Prusside | 0.0010 | 0-0.5 | 0.010 to 200.0 |
| Ammonia as N | ISBN00117516139 | – | Salicylate/DIC/Nitroprusside | 0.0020 | 0-2.0 | 0-75.0 |
| Boron | ISBN 0117515833 Part C | 212.3 | Azomethine-H | 0.0100 | 0-1.0 | 0-10.0 |
| Bromide | ISBN 0117515434 SMWWW 4500 D | 320.1 | Sodium Acetate/Chloramine T/Sodium Thiosulphate | – | 0-20.0 | 0-200 |
| Calcium | Tietz Fundamentals of Clinical Chemistry 4th Ed. | 215.2 | Arsenazo III | 0.0100 | 0-0.25 | 0-250 |
| Chloride | ISBN0117516260 SMWW 4500Cl- E | 325.2 | Ferricyanide | 0.0500 | 0-100 | 0-10000 |
| COD | ISBN 0117519154 SMWW 5220 D | 410.4 | Dichromate digest | 3.0000 | 0-1000 | 0-10000 |
| Copper | SMWW 3500 Cu C | – | Bathocuproine | – | 0-0.2 | – |
| Ferrous iron | SMWW 3500 - Fe B | 3500-Fe B | Phenanthroline | 0.0020 | 0-0.5 | 0-50.0 |
| Fluoride | ISBN 0117516627 SMWW 4500 FD 4500 FE | 340.1 340.3 | Alizarin | 0.0500 | 0-1.5 | 0-150 |
| Free Cyanide | ISBN 0117522198 | 335.2 | Chloramine T/Pyridine | 0.0010 | 0-1.0 | 0-100 |
| Hardness, Total | ISBN 0117516007 SMWW 2340 B or C | 130.1 | Magnesium EDTA | 1.8000 | 0-400 | N/A |
| Hexavalent Chromium | – | 7196-A | Diphenylcarbizide | 0.0008 | 0-1.0 | 0-100 |
| Total Iron | SMWW 3500 Fe B | 3500 Fe B | Phenanthroline | 0.0050 | 0.00 to 1.0 | 0.00 to 10.0 |
| Total Iron | ISBN 011751327X | – | 2,4,6-tripyridyl-1,3,5-triazine (TPTZ) | – | 0-1.5mg/l | – |

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|---------------------------|--|----------------------------|--|----------|-------------------|--------------------|
| | SCA Blue Book | EPA Method | Reagents | MDL mg/L | Working ranges | |
| | | | | | Typical Low range | Typical High range |
| Magnesium | Tietz Fundamentals of Clinical Chemistry 4th Ed. | – | Xylidyl | 0.0200 | 0-0.1 | 0 to 250 |
| Manganese | – | 600/4-79-020 Method Metals | Formaloxime | – | 0 - 0.25 | – |
| Molybdenum | Quin B.F and Woods PH Analyst 1979 104, 552-559 | – | Peroxide, Potassium Iodide | – | 0 - 0.5 | – |
| Nitrite as N | ISBN0117515930 SMWW 4500 NO2 - B | 354.1 | Sulphanilamide/NEDD | 0.0030 | 0-0.5 | 0-2.0 |
| Nitrate (Nox) as N/TON | ISBN0117515930 SMWW 4500 NO3 - H | 353.1 | Hydrazine/Sulphanilamide/NE DD | 0.0010 | 0-2.0 | 0-200 |
| Nitrate (Nox) as N/TON Cd | ISBN0117515930 SMWW 4500 NO3 - E | 353.3 | Sulphanilamide/NEDD | 0.0050 | 0-0.2 | 0-10 |
| Reactive P | ISBN 011751582.5 SMWW 4500 PE | 365.2 | Molybdate / Tartrate / Ascorbic | 0.0010 | 0-2.0 | 0-200 |
| Silica | ISBN 0117515574 SMWW 4500 Si D | 370.1 | Molybdate / Sulfonic acid | 0.0010 | 0-5.0 | 0-50 |
| Sulphate | ISBN 0117533406 SMWW 4500 SO4-2 C or D | 375.4 | Barium Chloride | 0.0500 | 0-500 | 0-1000 |
| Sulphide | ISBN 0117517186 SMWW 4500 - S2 | 376.2 | Diethylphenylenediamine (DPD)/Potassium Dichromate | 0.0500 | 0-20 | 0-2000 |
| Thiocyanate | ISBN 0117519340 | 4500-CN-M | Ferric Nitrate | 0.0070 | 0-0.5 | 0-50 |
| TKN as N | ISBN 0117521299 SMWW 4500 - N org A | 351.2 | Salicylate / Prusside | 0.0100 | 0-20 | 0-2000 |
| TKP or TP | ISBN 0117518883 | 365.4 | Molybdate / Tartrate / Ascorbic | 0.0050 | 0-5.0 | 0-50 |
| Total Cyanide | ISBN 0117522198 SMWW 4500-CN-N | 335.2 | Chloramine T/Pyridine | 0.0010 | 0-1.0 | 0-100 |
| Total Phenols | ISBN 0117516171 | 420.1 | Ferricyanide / 4-aminoantipyrine | 0.0020 | 0-0.5 | 0-50 |
| Zinc | SMWW 3500Zn B | – | Zincon | – | 0-0.5 | – |

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