

## THERMO SCIENTIFIC AQUAKEM Applications overview

<i>Analyte</i>	<i>Reagents</i>	<i>MDL* [mg/l]</i>	<i>Drinking water</i>	<i>Waste water</i>	<i>Surface water</i>	<i>Process water</i>	<i>Soil</i>
Alkalinity	Methyl orange	2.6	x	x	x		x
Aluminium	Phenanthroline / Pyrocatechol Violet / Hexamine	0.01	x				
Ammonia as N (Phenolate method)	Phenolate / Hypochlorite / Prusside	0.001	x	x	x	x	
Ammonia as N (Salicylate method)	Salicylate / DIC / Nitroprusside	0.002	x	x	x	x	
Boron	Azomethine-H	0.01	x	x	x	x	x
Bromide	Sodium Acetate / Chloramine T/ Sodium Thiosulphate	-	x	x	x		
COD / CSB	Dichromate digest	3.0		x			x
Calcium	Arsenazo III	0.01	x	x	x	x	x
Calcium $\Delta$	Arsenazo III	0.01	x	x	x	x	x
Chloride	Ferricyanide	0.05	x	x	x	x	x
Chloride $\Delta$	Ferricyanide	0.05	x	x	x	x	x
Copper	Bathocuproine	-	x	x	x	x	x
Ferrous Iron	Phenanthroline	0.002	x	x	x		
Fluoride	Alizarin	0.05	x	x	x		x
Free Cyanide	Chloramine T / Pyridine	0.001					x
Hardness total	Magnesium EDTA	1.8	x	x	x		x
Hexavalent Chromium	Diphenylcarbizide	0.0008	x	x	x		x
Magnesium	Xylidyl	0.02	x	x	x	x	x
Magnesium $\Delta$	Xylidyl	0.02	x	x	x	x	x
Manganese	Formaloxime	-	x	x	x	x	x
Molybdenum	Peroxide / Potassium iodide	-	x	x	x	x	x
Nitrate (Nox) as N (Cadmium method)	Cadmium column Sulphanilamide / NEDD	0.005	x	x	x		x
Nitrate (Nox) as N (Cadmium method) $\Delta$	Cadmium column Sulphanilamide / NEDD	0.005	x	x	x		x
Nitrate (Nox) as N (Hydrazine method)	Hydrazine / Sulphanilamide / NEDD	0.001	x	x	x		x
Nitrate (Nox) as N (Hydrazine method) $\Delta$	Hydrazine / Sulphanilamide / NEDD	0.001	x	x	x		x
Nitrate enzymatic	Nitrate reductase	0.006	x	x	x		x
Nitrite as N	Sulphanilamide / NEDD	0.003	x	x	x		x
Nitrite as N $\Delta$	Sulphanilamide / NEDD	0.003	x	x	x		x
Phosphate – P	Molybdate / Tartrate / Ascorbic	0.001	x	x	x		x
Phosphate – P $\Delta$	Molybdate / Tartrate / Ascorbic	0.001	x	x	x		x
Phosphorus	Molybdate / Tartrate / Ascorbic / Sulfuric acid	0.003	x	x	x		x
Silica	Molybdate / Sulfonic acid	0.001			x		x
Sulphate	Barium Chloride	0.05		x	x		x
Sulphate $\Delta$	Barium Chloride	0.05		x	x		x
Sulphide	Diethylphenylenediamine (DPD) / Potassium Dichromate	0.05	x	x	x		

\*) Method Detection Limit  
 $\Delta$ ) Large packaging

## THERMO SCIENTIFIC AQUAKEM Applications overview

<i>Analyte</i>	<i>Reagents</i>	<i>MDL* [mg/l]</i>	<i>Drinking water</i>	<i>Waste water</i>	<i>Surface water</i>	<i>Process water</i>	<i>Soil</i>
TKN as N	Salicylate / Prusside	0.01		x	x		x
TKP as TP	Molybdate / Tartrate / Ascorbic	0.005					
Thiocyanate	Ferric Nitrate	0.007	x	x	x	x	x
Total Cyanide	Chloramine T / Pyridine	0.001	x	x	x	x	x
Total Iron (Phenanthroline)	Phenanthroline	0.005	x	x	x		x
Total Iron (TPTZ)	2,4,6-tripyridyl-1,3,5-triazine (TPTZ)	-	x	x	x		x
Total Phenols	Ferricyanide / 4-aminoantipyrine	0.002	x	x	x		
Zinc	Zincon	-	x	x	x	x	x

\*) Method Detection Limit  
 △) Large packaging