

THERMO SCIENTIFIC AQUAKEM List of applications

Reference	Analyte	Reagents	Packaging	Tests / Kit	Low measuring range [mg/l]	High measuring range [mg/l]	MDL* [mg/l]	Filter [nm]	Number of reagents	Incubation temp. [°C]	Incubation time [sec]	Sample vol. [µl]	Drinking water	Waste water	Surface water	Process water	Soil	Reference method SCA Blue Book	Reference method EPA
-	Alkalinity	Methyl orange	Powder, solution	-	0 – 300	N/A	2.6	540	1	37	420	90	x	x	x	x		ISBN00117516015 SMWW 2320B	310.2
-	Aluminium	Phenanthroline / Pyrocatechol Violet / Hexamine	-	-	0 – 0.3	N/A	0.01	-	-	37	-	-	x					SMWW 3500 Al D	3500 Al D
-	Ammonia as N (Phenolate method)	Phenolate / Hypochlorite / Prusside	-	-	0 – 0.5	0.01 – 200	0.001	630	3	37	720	170	x	x	x	x		ISBN 0117516139 SMWW 4500NH3 H	350.1
984640 (R1L) 984641 (R2)	Ammonia as N (Salicylate method)	Salicylate / DIC / Nitroprusside	1 x 125 ml 4 x 20 ml	1300	0 – 2	0 – 75	0.002	660	2	37	600	170	x	x	x	x		ISBN00117516139	-
-	Boron	Azomethine-H	Powder, solution	-	0 – 1	0 – 10	0.01	405	-	37	-	-	x	x	x	x	x	ISBN 0117515833 Part C	212.3
-	Bromide	Sodium Acetate / Chloramine T/ Sodium Thiosulphate	Powder, solution	-	0 – 20	0 – 200	-	600	4	37	1140	150	x	x	x			ISBN 0117515434 SMWW 4500 D	320.1
-	COD / CSB	Dichromate digest	Solution	-	0 – 1000	0 – 10000	3.0	600	0	37	90	150		x			x	ISBN 0117519154 SMWW 5220 D	410.4
981772	Calcium	Arsenazo III	8 x 20 ml	1000	0 – 0.25	0 – 250	0.01	660	1	37	360	3	x	x	x	x	x	Tietz Fundamentals of Clinical Chemistry 4th Ed.	215.2
981367	Calcium Δ	Arsenazo III	6 x 60 ml	2400	0 – 0.25	0 – 250	0.01	660	1	37	360	3	x	x	x	x	x	Tietz Fundamentals of Clinical Chemistry 4th Ed.	215.2
984642 (R1)	Chloride	Ferricyanide	4 x 20 ml	500	0 – 100	0 – 10000	0.05	480	1	37	480	80	x	x	x	x	x	ISBN0117516260 SMWW 4500Cl- E	325.2

*) Method Detection Limit

Δ) Large packaging

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984643 (R1L)	Chloride Δ	Ferricyanide	20 x 20 ml	2500	0 – 100	0 – 10000	0.05	480	1	37	480	80	x	x	x	x	x	ISBN0117516260 SMWW 4500CI- E	325.2
-	Copper	Bathocuproine	Powder, solution	-	0 – 0.2	-	-	480	4	37	540	170	x	x	x	x	x	SMWW 3500 Cu C	-
-	Ferrous Iron	Phenanthroline	Powder, solution	-	0 – 0.5	0 – 50	0.002	510	2	37	480	170	x	x	x			SMWW 3500 - Fe B	3500-Fe B
-	Fluoride	Alizarin	Powder, solution	-	0 – 1.5	0 – 150	0.05	620	3	37	960	92	x	x	x		x	ISBN 0117516627 SMWW 4500 FD 4500 FE	340.1 340.3
-	Free Cyanide	Chloramine T / Pyridine	Powder, solution	-	0 – 1.0	0 – 100	0.001	-	-	37	-	-					x	ISBN 0117522198	335.2
-	Hardness total	Magnesium EDTA	Powder, solution	-	0 – 400	N/A	1.8	620	2	37	300	6	x	x	x		x	ISBN 0117516007 SMWW 2340 B or C	130.1
-	Hexavalent Chromium	Diphenylcarbide	Powder, solution	-	0 – 1	0 – 100	0.0008	540	1	37	360	150	x	x	x		x	-	7196-A
981783	Magnesium	Xylidyl	8 x 10 ml	400	0 – 0.1	0 – 250	0.02	520	1	37	360	2	x	x	x	x	x	Tietz Fundamentals of Clinical Chemistry 4th Ed.	-
981785	Magnesium Δ	Xylidyl	12 x 20 ml	1200	0 – 0.1	0 – 250	0.02	520	1	37	360	2	x	x	x	x	x	Tietz Fundamentals of Clinical Chemistry 4th Ed.	-
-	Manganese	Formaloxime	Powder, solution	-	0 – 0.25	-	-	460	3	37	720	120	x	x	x	x	x	-	600/4-79-020 Method Metals
-	Molybdenum	Peroxide / Potassium iodide	Powder, solution	-	0 – 0.5	-	-	420	3	37	600	18	x	x	x	x	x	Quin B.F and Woods PH Analyst 1979 104, 552-559	-
984067 984653 (R3)	Nitrate (Nox) as N (Cadmium method)	Cadmium column Sulphanilamide / NEDD	- 4 x 20 ml	1100	0 – 0.2	0 – 10	0.005	540	1	37	360	170	x	x	x		x	ISBN0117515930 SMWW 4500 NO3 - E	353.3
984067 984654 (R3L)	Nitrate (Nox) as N (Cadmium method) Δ	Cadmium column Sulphanilamide / NEDD	- 20 x 20 ml	5700	0 – 0.2	0 – 10	0.005	540	1	37	360	170	x	x	x		x	ISBN0117515930 SMWW 4500 NO3 - E	353.3

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984650 (R1L) 984651 (R2) 984653 (R3)	Nitrate (Nox) as N (Hydrazine method)	Hydrazine / Sulphanilamide / NEDD	1 x 125 ml 4 x 20 ml 4 x 20 ml	700	0 – 2	0 – 200	0.001	540	3	37	900	20	x	x	x	x		ISBN0117515930 SMWW 4500 NO3 - H	353.1
984650 (R1L) 984652 (R2L) 984654 (R3L)	Nitrate (Nox) as N (Hydrazine method) Δ	Hydrazine / Sulphanilamide / NEDD	1 x 125 ml 6 x 60 ml 20 x 20 ml	1300	0 – 2	0 – 200	0.001	540	3	37	900	20	x	x	x	x		ISBN0117515930 SMWW 4500 NO3 - H	353.1
-	Nitrate enzymatic	Nitrate reductase	Powder, solution	-	0.003 – 1.6	0.038 – 12.5	0.006	540	4	37	840	50	x	x	x	x		SMWW 4500 NO3 (pending)	-
984653 (R3)	Nitrite as N	Sulphanilamide / NEDD	4 x 20 ml	1100	0 – 0.5	0 – 2	0.003	540	1	37	360	170	x	x	x	x		ISBN0117515930 SMWW 4500 NO2 - B	354.1
984654 (R3L)	Nitrite as N Δ	Sulphanilamide / NEDD	20 x 20 ml	5700	0 – 0.5	0 – 2	0.003	540	1	37	360	170	x	x	x	x		ISBN0117515930 SMWW 4500 NO2 - B	354.1
984644 (R1) 984645 (R2)	Phosphate – P	Molybdate / Tartrate / Ascorbic	4 x 20 ml 4 x 20 ml	2300	0 – 2.0	0 – 200	0.001	880	1	37	540	160	x	x	x	x		ISBN 011751582.5 SMWW 4500 PE	365.2
984646 (R1L) 984645 (R2)	Phosphate – P Δ	Molybdate / Tartrate / Ascorbic	20 x 20 ml 4 x 20 ml	3000	0 – 2.0	0 – 200	0.001	880	1	37	540	160	x	x	x	x		ISBN 011751582.5 SMWW 4500 PE	365.2
-	Phosphorus	Molybdate / Tartrate / Ascorbic / Sulfuric acid	-	-	-	-	0.003	880	3	37	360	130	x	x	x	x		-	365.3
-	Silica	Molybdate / Sulfonic acid	Powder, solution	-	0 – 5.0	0 – 50	0.001	880	3	37	600	170			x	x		ISBN 0117515574 SMWW 4500 Si D	370.1
984648 (R1)	Sulphate	Barium Chloride	4 x 20 ml	1100	0 – 500	0 – 1000	0.05	420	1	37	300	100		x	x	x		ISBN 0117533406 SMWW 4500 SO4-2 C or D	375.4
984649 (R1L)	Sulphate Δ	Barium Chloride	6 x 60 ml	5100	0 – 500	0 – 1000	0.05	420	1	37	300	100		x	x	x		ISBN 0117533406 SMWW 4500 SO4-2 C or D	375.4
-	Sulphide	Diethylphenylenediami ne (DPD) / Potassium Dichromate	Powder, solution	-	0 – 20	0 – 2000	0.05	660	2	37	480	150	x	x	x			ISBN 0117517186 SMWW 4500 – S2	376.2
-	TKN as N	Salicylate / Prusside	Powder, solution	-	0 – 20	0 – 2000	0.01	660	3	37	600	62		x	x	x		ISBN 0117521299 SMWW 4500 - N org A	351.2

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-	TKP as TP	Molybdate / Tartrate / Ascorbic	Powder, solution	-	0 – 5	0 – 50	0.005	-	-	37	-	-						ISBN 0117518883	365.4
-	Thiocyanate	Ferric Nitrate	Powder, solution	-	0 – 0.5	0 – 50	0.007	450	1	37	240	150	x	x	x	x	x	ISBN 0117519340	4500-CN- M
-	Total Cyanide	Chloramine T / Pyridine	Powder, solution	-	0 – 1	0 – 100	0.001	575	3	37	940	85	x	x	x	x	x	ISBN 0117522198 SMWW 4500-CN-N	335.2
-	Total Iron (Phenanthroline)	Phenanthroline	Powder, solution	-	0 – 1	0 – 10	0.005	420	2	37	480	170	x	x	x		x	SMWW 3500 Fe B	3500 Fe B
-	Total Iron (TPTZ)	2,4,6-tripyridyl-1,3,5-triazine (TPTZ)	Powder, solution	-	0 – 1.5	-	-	600	1	37	420	140	x	x	x		x	ISBN 011751327X	-
-	Total Phenols	Ferricyanide / 4-aminoantipyrine	Powder, solution	-	0 – 0.5	0 – 50	0.002	510	2	37	600	150	x	x	x			ISBN 0117516171	420.1
-	Zinc	Zincon	Powder, solution	-	0 – 0.5	-	-	620	1	37	420	120	x	x	x	x	x	SMWW 3500Zn B	-

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 △) Large packaging