Reagents

Test	No. Methods	Range	MD 100 & MD 110	MD 200	MD 600, MD 610 & MD 640	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect	XD 7000	XD 7500	Method
			Wave lengths λ / nm									
Acid capacity $K_{S4.3}$	M20	0,1 - 4 mmol/l	-	610	610	610	610	-	615	615	615	Acid/Indicator [1, 2]
ADMI	M2530 M2531	2 - 100 mg/l 10 - 500 mg/l								400 bis 700	400 bis 700	Tristimulus Colorometry
Alkalinity-m	M30	5 - 200 mg/l	610	610	610	610	610	610	615	615	615	Acid/Indicator [1, 2, 5]
Alkalinity-m HR	M31	5 - 500 mg/l	-	-	610	610	610	610	615	615	615	Acid/Indicator [1, 2, 5]
Alkalinity-p	M35	5 - 300 mg/l	-	-	560	560	-	-	551	551	551	Acid/Indicator [1, 2, 5]
Aluminium VARIO	M50	0,01 - 0,25 mg/l	530	-	530	530	530	-	535	535	535	Eriochromcyanin R [2]
Aluminium	M40	0,01 - 0,3 mg/l	530	-	530	530	530	-	535	535	535	Eriochrome cyanine R [2]
Ammonia	M60	0,02 - 1 mg/l	610	-	610	610	610	-	676	676	676	Indophenole blue [2, 3]
Ammonia VARIO	M62	0,01 - 0,8 mg/l	660	-	660	660	-	-	655	655	655	Salicylate [2]
Ammonia VARIO LR	M65	0,02 - 2,5 mg/l	-	-	660	660	-	-	655	655	655	Salicylate [2]
Ammonia VARIO HR	M66	1 - 50 mg/l	-	-	660	660	-	-	655	655	655	Salicylate [2]
Arsenic (III, V)	M68	0,02 - 0,6 mg/l	-	-	-	-	-	-	507	507	507	Silver diethyldithiocarbamate[1]
Biguanide (see PHMB)												

MSDS (Material Safety Data Sheets): **www.lovibond.com**

For other reagent quantities please see our current price list.

[1] Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlamm- Untersuchung
[2] Standard Methods for the Examination of Water and Wastewater, 18th Edition; 1992
[3] Photometrische Analysenverfahren, Schwedt, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart; 1989
[4] Photometrische Analyse, Lange/Vejdelek, Verlag Chemie; 1980
[5] Colorimetric Chemical Analytical Methods, 9th Edition, Lovibond®

Green Chemistry

Tube	Display	Reagent	Form of reagent/Quantity	Order code
24 mm ø		ALKA-M-PHOTOMETER	Tablet / 100	51 32 10 BT
50 mm □ 10 mm □		Pt-Co Units	no reagents required	
24 mm ø	$CaCO_3$	ALKA-M-PHOTOMETER	Tablet / 100	51 32 10 BT
24 mm ø	$CaCO_3$	ALKA-M-HR-PHOTOMETER	Tablet / 100	51 32 40 BT
24 mm ø	$CaCO_3$	ALKA-P-PHOTOMETER	Tablet / 100	51 32 30 BT
24 mm ø	Al	VARIO AluminuMECR/F20 VARIO AluminuMHexamine/F20 VARIO AluminuMECR Masking Reagent	Powder Pack / 100 Powder Pack / 100 Liquid reagent / 25 ml **Set**	 53 50 00
24 mm ø	Al	ALUMINIUMNo. 1 ALUMINIUMNo. 2 Combi pack# ALUMINIUM No.1 / No.2 Combi pack# ALUMINIUM No.1 / No.2	Tablet / 100 Tablet / 100 each 100 each 250	51 54 60 BT 51 54 70 BT 51 76 01 BT 51 76 02 BT
24 mm ø	NH_4 - N	AMmONIA No. 1 AMmONIA No. 2 Combi pack# AMmONIA No.1 / No.2 Combi pack# AMmONIA No.1 / No.2 Ammonia conditioning powder (for seawater)	Tablet / 100 Tablet / 100 each 100 each 250 Powder / 15 g / 50 Tests	51 25 80 BT 51 25 90 BT 51 76 11 BT 51 76 12 BT 46 01 70
24 mm ø	NH_4 - N	VARIO Ammonia Salicylate F10 VARIO Ammonia Cyanurate F10	Powder Pack / 200 Powder Pack / 200 **Set**	 53 55 00
16 mm ø	NH_4 - N	VARIO Ammonia Salicylate F5 VARIO Ammonia Cyanurate F5 VARIO AMDiluent Reagent LR VARIO Deionised Water (for Zero)	Powder Pack / 50 Powder Pack / 50 Reaction tube / 50 Bottle, 100 ml **Set** (Tube test)	 53 56 00
16 mm ø	NH_4 - N	VARIO Ammonia Salicylate F5 VARIO Ammonia Cyanurate F5 VARIO AMDiluent Reagent HR VARIO Deionised Water (for Zero)	Powder Pack / 50 Powder Pack / 50 Reaction tube / 50 Bottle, 100 ml **Set** (Tube test)	 53 56 50
20 mm □	As	**Arsenic Reaction apparatus Set** Erlenmeyer flask glass stopper absorption tube **W 100** (tube, Optical Glass-OG, 20 mm layer depth)		**370500** 370501 370502 370503 601050

a) determination of free, combined and total
b) Thermoreactor is necessary for COD (150 °C), TOC (120 °C) and total -chromium, - phosphate, -nitrogen, (100 °C)
c) MultiDirect: Adapter is necessary for Vacu-vials® (Order code 19 20 75)
d) Spectroquant® is a Merck KGaA Trademark
e) alternative reagent, used instead of DPD No.1 / DPD No.3 in case of turbidity in the water sample caused by high concentration of calcium and/or high conductivity
f) additionally required for determination of bromine, chlorine dioxide and ozone in the presence of chlorine
g) Reagent recovers most insoluble iron oxides without digestion
h) additionally required for samples with hardness values above 300 mg/l CaCO3
i) high range by dilution
j) Vacu-vials® is a Chemetrics Trademark
including stirring rod

Reagents

Test	No. Methods	Range	Wave lengths λ / nm									Method
			MD 100 & MD 110	MD 200	MD 600, MD 610 & MD 640	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect	XD 7000	XD 7500	
Boron	M85	0,1 - 2 mg/l	-	-	430	430	-	-	450	450	450	Azomethine [3]
Bromine	M80	0,05 - 13 mg/l	530	530	530	530	530	530	-	510	510	DPD [5]
		0,05 - 6,5 mg/l	-	-	-	-	-	-	510	-	-	
	M79	0,05 - 1 mg/l	-	-	-	-	-	-	510	510	510	
	M78	0,1 - 3 mg/l	-	-	-	-	-	-	510	510	510	
Bromine Powder	M81	0,05 - 4,5 mg/l	-	-	530	530	-	-	-	510	510	DPD [1, 2]
Cadmium (Cd^{2+})	M87	0,025 - 0,75 mg/l	-	-	-	-	-	-	525	525	525	Cadion
Chlorine [a)]	M100	0,01 - 6 mg/l	530	530	530	530	530	530	-	510	510	DPD [1, 2]
		0,02 - 3 mg/l	-	-	-	-	-	-	510	-	-	
	M99	0,02 - 0,5 mg/l	-	-	-	-	-	-	510	510	510	
	M98	0,1 - 6 mg/l	-	-	-	-	-	-	510	510	510	
Chlorine HR (DPD) [a)]	M103	0,1 - 10 mg/l	530	530	530	530	530	530	-	-	-	DPD [1, 2]
	M104	0,1 - 10 mg/l	-	-	-	-	-	-	510	510	510	
Chlorine [a)]	M101	0,02 - 4 mg/l	530	530	530	530	530	-	-	-	-	DPD [1, 2]
		0,02 - 3 mg/l	-	-	-	-	-	-	510	510	510	
Chlorine Powder MR	M113	0,02 - 3,5 mg/l	530	-	530	530	-	-	510	510	510	DPD [1, 2]
Chlorine Powder [a)]	M110	0,02 - 2 mg/l	530	-	530	530	530	-	510	510	510	DPD [1, 2]
	M111	0,1 - 8 mg/l	530	-	530	-	530	-	-	-	-	

MSDS (Material Safety Data Sheets): **www.lovibond.com**

For other reagent quantities please see our current price list.

[1] Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlamm- Untersuchung
[2] Standard Methods for the Examination of Water and Wastewater, 18th Edition; 1992
[3] Photometrische Analysenverfahren, Schwedt, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart; 1989
[4] Photometrische Analyse, Lange/Vejdelek, Verlag Chemie; 1980
[5] Colorimetric Chemical Analytical Methods, 9th Edition, Lovibond®

Green Chemistry

Tube	Display	Reagent	Form of reagent/Quantity	Order code
24 mm ø	B	BORON No. 1	Tablet / 100	51 57 90BT
		BORON No. 2	Tablet / 100	51 58 00BT
		Combi pack# BORON No.1 / No.2	each 100	51 76 81BT
		Combi pack# BORON No.1 / No.2	each 200	51 76 82BT
24 mm ø	Br	in absence of Chlorine: DPD No.1		
24 mm ø		Bromine beside Chlorine: DPD No.1, Glycine		
50 mm ☐		differentiated bromine determination:		
10 mm ☐		DPD No.1, DPD No.3, DPD Nitrite		
		DPD No. 1	Tablet / 100	51 10 50 BT
		GLYCINE [f]	Tablet / 100	51 21 70 BT
		DPD No. 3	Tablet / 100	51 10 80 BT
		DPD Nitrite	Tablet / 250	50 26 91
		Combi pack# DPD No.1 / GLYCINE	each 100	51 77 31 BT
		Combi pack# DPD No.1 / GLYCINE	each 250	51 77 32 BT
		Combi pack# DPD No.1 / No.3	each 100	51 77 11 BT
		Combi pack# DPD No.1 / No.3	each 250	51 77 12 BT
		DPD No. 1 HIGH CALCIUM[e]	Tablet / 100	51 57 40 BT
		DPD No. 3 HIGH CALCIUM[e]	Tablet / 100	51 57 30 BT
		Combi pack# DPD No.1 / No.3 HIGH CALCIUM[e]	each 100	51 77 81 BT
		Combi pack# DPD No.1 / No.3 HIGH CALCIUM[e]	each 250	51 77 82 BT
24 mm ø	Br	Chlorine TOTAL-DPD/F10	Powder Pack / 100	53 01 20
16 mm ø	Cd	Spectroquant® 1.14834.0001[d]	Tube test / 25	42 07 50
24 mm ø	Cl_2	DPD No. 1	Tablet / 100	51 10 50 BT
24 mm ø		DPD No. 3	Tablet / 100	51 10 80 BT
50 mm ☐		Combi pack# DPD No.1 / No.3	each 100	51 77 11 BT
10 mm ☐		Combi pack# DPD No.1 / No.3	each 250	51 77 12 BT
		DPD No. 1 HIGH CALCIUM[e]	Tablet / 100	51 57 40 BT
		DPD No. 3 HIGH CALCIUM[e]	Tablet / 100	51 57 30 BT
		Combi pack# DPD No.1 / No.3 HIGH CALCIUM[e]	each 100	51 77 81 BT
		Combi pack# DPD No.1 / No.3 HIGH CALCIUM[e]	each 250	51 77 82 BT
24 mm ø	Cl_2	DPD No. 1 HR	Tablet / 100	51 15 00 BT
10 mm ☐		DPD No. 3 HR	Tablet / 100	51 15 90 BT
24 mm ø	Cl_2	DPD 1 Buffer solution	Liquid reagent / 15 ml	47 10 10
24 mm ø		DPD 1 Reagent solution	Liquid reagent / 15 ml	47 10 20
		DPD 3 Solution	Liquid reagent / 15 ml	47 10 30
			Set	47 10 56
24 mm ø	Cl_2	VARIO Chlorine FREE-DPD/F10	Powder Pack / 100	53 01 80
		VARIO Chlorine TOTAL-DPD/F10	Powder Pack / 100	53 01 90
24 mm ø	Cl_2	Chlorine FREE-DPD/F10	Powder Pack / 100	53 01 00
10 mm ☐		Chlorine TOTAL-DPD/F10	Powder Pack / 100	53 01 20
Multivial				

[a] determination of free, combined and total
[b] Thermoreactor is necessary for COD (150 °C), TOC (120 °C) and total -chromium, - phosphate, -nitrogen, (100 °C)
[c] MultiDirect: Adapter is necessary for Vacu-vials® (Order code 19 20 75)
[d] Spectroquant® is a Merck KGaA Trademark
[e] alternative reagent, used instead of DPD No.1 / DPD No.3 in case of turbidity in the water sample caused by high concentration of calcium and/or high conductivity
[f] additionally required for determination of bromine, chlorine dioxide and ozone in the presence of chlorine
[g] Reagent recovers most insoluble iron oxides without digestion
[h] additionally required for samples with hardness values above 300 mg/l CaCO3
[i] high range by dilution
[j] Vacu-vials® is a Chemetrics Trademark
including stirring rod

Reagents

Test	No. Methods	Range	Wave lengths λ / nm									Method
			MD 100 & MD 110	MD 200	MD 600, MD 610 & MD 640	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect	XD 7000	XD 7500	
Chlorine HR (KI)	M105	5 - 200 mg/l	530	-	530	530	-	-	470	470	470	KI / Acid [5]
Chlorine dioxide	M120	0,02 - 11 mg/l	530	530	530	530	530	-	-	510	510	DPD/Glycine [1,2]
		0,05 - 2,5 mg/l	-	-	-	-	-	-	510	-	-	
	M119	0,05 - 1 mg/l	-	-	-	-	-	-	510	510	510	
Chlorine dioxide Powder	M122	0,04 - 3,8 mg/l	530	-	530	530	-	-	-	510	510	DPD [1, 2]
Chloride	M90	0,5 - 25 mg/l	530	-	530	530	-	-	450	450	450	Silver nitrate/turbidity
	M93	5 - 250 mg/l [i)]	530	-	-	-	-	-	-	-	-	
Chloride	M91	5 - 60 mg/l	-	-	-	-	-	-	455	455	455	Iron (III)-thiocyanate [4]
Chloride	M92	0,5 - 20 mg/l	430	-	430	-	-	-	-	430	430	Mercury thiocyanate / Iron nitrate
Chrome (III, VI) [b)]	M124	0,005 - 0,5 mg/l	-	-	-	-	-	-	542	542	542	1,5-Diphenylcarbozide [1, 2]
	M125	0,02 - 2 mg/l	-	-	530	530	-	-	542	542	542	
COD LR (ISO 15705:2002)[b)]	M130	3 - 150 mg/l	430	430	430	430	-	-	443	443	443	Dichromate / H_2SO_4 [1, 2]
COD LMR (ISO 15705:2002)[b)] new!	M133	15 - 300 mg/l	430	430	430	430	-	-	445	445	445	Dichromate / H_2SO_4 [1, 2]
COD MR (ISO 15705:2002)[b)]	M131	20 - 1500 mg/l	610	610	610	610	-	-	596	596	596	Dichromate / H_2SO_4 [1, 2]
COD HR [b)]	M132	200 - 15000 mg/l	610	610	610	610	-	-	602	602	602	Dichromate / H_2SO_4 [1, 2]

MSDS (Material Safety Data Sheets): **www.lovibond.com**

For other reagent quantities please see our current price list.

[1] Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlamm- Untersuchung
[2] Standard Methods for the Examination of Water and Wastewater, 18th Edition; 1992
[3] Photometrische Analysenverfahren, Schwedt, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart; 1989
[4] Photometrische Analyse, Lange/Vejdelek, Verlag Chemie; 1980
[5] Colorimetric Chemical Analytical Methods, 9th Edition, Lovibond®

Green Chemistry

Tube	Display	Reagent	Form of reagent/Quantity	Order code
16 mm ø	Cl_2	ACIDIFYING GP	Tablet / 100	51 54 80 BT
		CHLORINE HR (KI)	Tablet / 100	51 30 00 BT
		Combi pack# CHLORINE HR (KI)/ACIDIFYING GP	each 100	51 77 21 BT
		Combi pack# CHLORINE HR (KI)/ACIDIFYING GP	each 250	51 77 22 BT
24 mm ø 24 mm ø 50 mm □	ClO_2	in absence of chlorine: DPD No.1 Chlorine dioxide beside Chlorine: DPD No.1, Glycine, DPD No.3		
		DPD No. 1	Tablet / 100	51 10 50 BT
		GLYCINE [f]	Tablet / 100	51 21 70 BT
		DPD No. 3	Tablet / 100	51 10 80 BT
		Combi pack# DPD No.1 / GLYCINE	each 100	51 77 31 BT
		Combi pack# DPD No.1 / GLYCINE	each 250	51 77 32 BT
		Combi pack# DPD No.1 / No.3	each 100	51 77 11 BT
		Combi pack# DPD No.1 / No.3	each 250	51 77 12 BT
		DPD No. 1 HIGH CALCIUM[e]	Tablet / 100	51 57 40 BT
		DPD No. 3 HIGH CALCIUM[e]	Tablet / 100	51 57 30 BT
		Combi pack# DPD No.1 / No.3 HIGH CALCIUM[e]	each 100	51 77 81 BT
		Combi pack# DPD No.1 / No.3 HIGH CALCIUM[e]	each 250	51 77 82 BT
	ClO_2	Chlorine FREE-DPD/F10	Powder Pack / 100	53 01 00
		GLYCINE [f]	Tablet / 100	51 21 70 BT
24 mm ø	Cl^-	CHLORIDE T1	Tablet / 100	51 59 10 BT
		CHLORIDE T2	Tablet / 100	51 59 20 BT
		Combi pack# CHLORIDE T1 / T2	each 100	51 77 41 BT
		Combi pack# CHLORIDE T1 / T2	each 250	51 77 42 BT
24 mm ø	Cl^-	Chloride-51 / Chloride-52	Reagent test (Liquid reagent) approx. 50-75 Tests	2 41 90 31
24 mm ø	Cl^-	KS251 (Chloride Reagent A)	Liquid reagent / 65 ml	56L025165
		KS253 (Chloride Reagent B)	Liquid reagent / 65 ml	56L025365
			Set	56R018490
50 mm □	Cr	PERSULF. RTG FOR CR	Powder Pack / 100	53 73 00
16 mm ø		ChromiuMHexavalent	Powder Pack /100	53 73 10
16 mm ø	O_2	Reaction tube 0-150 mg/l	Tube test / 25	2 42 07 20 with Barcode
		Reaction tube 0-150 mg/l, mercury free* *without chloride removal	Tube test / 25	2 42 07 10 with Barcode
16 mm ø	O_2	Reaction tube 15-300 mg/l	Tube test / 25	2 42 31 20 with Barcode
16 mm ø	O_2	Reaction tube 0-1500 mg/l	Tube test / 25	2 42 07 21 with Barcode
		Reaction tube 0-1500 mg/l, mercury free* *without chloride removal	Tube test / 25	2 42 07 11 with Barcode
16 mm ø	O_2	Reaction tube 0-15000 mg/l	Tube test / 25	2 42 07 22 with Barcode
		Reaction tube 0-15000 mg/l, mercury free* *without chloride removal	Tube test / 25	2 42 07 12 with Barcode

a) determination of free, combined and total
b) Thermoreactor is necessary for COD (150 °C), TOC (120 °C) and total -chromium, - phosphate, -nitrogen, (100 °C)
c) MultiDirect: Adapter is necessary for Vacu-vials® (Order code 19 20 75)
d) Spectroquant® is a Merck KGaA Trademark
e) alternative reagent, used instead of DPD No.1 / DPD No.3 in case of turbidity in the water sample caused by high concentration of calcium and/or high conductivity
f) additionally required for determination of bromine, chlorine dioxide and ozone in the presence of chlorine
g) Reagent recovers most insoluble iron oxides without digestion
h) additionally required for samples with hardness values above 300 mg/l CaCO3
i) high range by dilution
j) Vacu-vials® is a Chemetrics Trademark
including stirring rod

Reagents

Test	No. Methods	Range	MD 100 & MD 110	MD 200	MD 600, MD 610 & MD 640	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect	XD 7000	XD 7500	Method
			Wave lengths λ / nm									
Copper [a]	M150	0,05 - 5 mg/l	560	560	560	560	560	560	559	559	559	Biquinoline [4]
		0,5 - 5 mg/l	530	-	-	-	-	-	-	-	-	
	M149	0,05 - 1 mg/l	-	-	-	-	-	-	559	559	559	
Copper [a]	M151	0,05 - 4 mg/l	-	-	560	-	-	-	-	560	560	Bicinchoninate
Copper, free VARIO	M153	0,05 - 5 mg/l	560	-	560	560	560	-	560	560	560	Bicinchoninate
Cyanide	M157	0,01 - 0,5 mg/l	-	-	580	580	-	-	585	585	585	Pyridine-barbituric acid [1]
	M156	0,005 - 0,2 mg/l	-	-	-	-	-	-	585	585	585	
Cyanuric acid	M160	10 - 160 mg/l	530	530	530	530	530	530	530	530	530	Melamine
Cyanuric acid HR	M161	20 - 200 mg/l	-	-	530	530	530	530	530	530	530	Melamine
available in Q4!												
DEHA	M165	20 - 500 µg/l	-	-	560	560	-	-	562	562	562	PPST [3]
DEHA VARIO	M167	20 - 500 µg/l	560	-	560	560	-	-	562	562	562	PPST [3]
Fluoresceine (only MD 640)	M510	10 - 400 ppb	-	-	> 395	-	-	-	-	-	-	Fluorescence
Fluoride	M170	0,05 - 2 mg/l	580	-	580	580	-	-	580	580	580	SPADNS [2]
Formaldehyde	M175	1 - 5 mg/l	-	-	-	-	-	-	585	585	585	H_2SO_4/ Chromotropic acid
	M176	0,02 - 1 mg/l	-	-	-	-	-	-	585	585	585	
Formaldehyde	M177	0,1 - 5 mg/l	-	-	-	-	-	-	575	575	575	H_2SO_4/ Chromotropic acid
Hardness, calcium	M191	20 - 500 mg/l	560	560	560	560	560	560	-	560	560	Murexide [4]
Hardness, total	M200	2 - 50 mg/l	560	-	560	560	560	-	571	571	571	Metallphthalein [3]
	M201	20 - 500 mg/l [i]	560	-	560	560	560	-	571	571	571	
Hazen (Pt-Co-Units ; APHA)	M204	10 - 500 mg/l	430	-	430	430	-	-	-	455	455	Direct reading [1, 2]
	M203	10 - 500 mg/l	-	-	-	-	-	-	455	455	455	
Hydrazine	M205	0,05 - 0,5 mg/l	430	-	430	430	-	-	455	455	455	Dimethylamino-benzaldehyd [3]

MSDS (Material Safety Data Sheets): **www.lovibond.com**

For other reagent quantities please see our current price list.

[1] Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlamm- Untersuchung
[2] Standard Methods for the Examination of Water and Wastewater, 18th Edition; 1992
[3] Photometrische Analysenverfahren, Schwedt, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart; 1989
[4] Photometrische Analyse, Lange/Vejdelek, Verlag Chemie; 1980
[5] Colorimetric Chemical Analytical Methods, 9th Edition, Lovibond®

Green Chemistry

Tube	Display	Reagent	Form of reagent/Quantity	Order code
24 mm ø 24 mm ø 50 mm ø	Cu	COPPER No. 1 COPPER No. 2 Combi pack# COPPER No.1 / No.2 Combi pack# COPPER No.1 / No.2	Tablet / 100 Tablet / 100 each 100 each 250	51 35 50 BT 51 35 60 BT 51 76 91 BT 51 76 92 BT
24 mm ø	Cu	KS240 (Coppercol Reagent 1) KS241 (Coppercol Reagent 2) KS242 (Coppercol Reagent 3) COPPER No.2 (Cu total)	Liquid reagent / 30 ml Liquid reagent / 30 ml Powder / 10 g Tablet / 100 **Set**	56L024030 56L024130 56L024210 51 35 60 BT 56R023355
24 mm ø	Cu	Vario Cu 1 F10	Powder Pack / 100	53 03 00
24 mm ø 50 mm □	CN	Cyanide-11 / Cyanide-12 / Cyanide-13	Reagent test (Powder, Liquid reagent) / 200 Tests	2 41 88 75
24 mm ø	Cys	CyA-TEST	Tablet / 100	51 13 70 BT
24 mm ø	Cys	CyA HR-TEST	Tablet / 100	51 14 30 BT
24 mm ø	DEHA	DEHA-Liquid DEHA	Liquid reagent / 100 ml Tablet / 100	46 11 81 51 32 20 BT
24 mm ø	DEHA	VARIO OXYSCAV 1 RGT VARIO DEHA 2 RGT	Powder Pack / 200 Solution / 100 ml **Set**	53 60 00
24 mm ø	Fluoresceine	no reagents required		
24 mm ø	F	SPADNS-Reagent Fluoride Standard Reagent solution and standard required	Liquid reagent / 250 ml Liquid reagent / 500 ml Solution / 30 ml	46 74 81 46 74 82 20 56 30
10 mm □ 50 mm □	HCHO	Spectroquant® 1.14678.0001[d]	Reagent test / ca. 50-75 Tests	42 07 51
16 mm ø	HCHO	Spectroquant® 1.14500.0001[d]	Tube test / 25	42 07 52
24 mm ø	$CaCO_3$	Combi pack# CALCIO H No.1 / No.2 Combi pack# CALCIO H No.1 / No.2	each 100 each 250	51 77 61 BT 51 77 62 BT
24 mm ø	$CaCO_3$	HARDCHECK P	Tablet / 100 Tablet / 250	51 56 60 BT 51 56 61 BT
24 mm ø 50 mm □	Pt-Co-Units	no reagents required	-	-
24 mm ø	N_2H_4	Hydrazine Test Powder measuring spoon	Powder / 30 g	46 29 10 38 49 30

[a] determination of free, combined and total
[b] Thermoreactor is necessary for COD (150 °C), TOC (120 °C) and total -chromium, - phosphate, -nitrogen, (100 °C)
[c] MultiDirect: Adapter is necessary for Vacu-vials® (Order code 19 20 75)
[d] Spectroquant® is a Merck KGaA Trademark
[e] alternative reagent, used instead of DPD No.1 / DPD No.3 in case of turbidity in the water sample caused by high concentration of calcium and/or high conductivity
[f] additionally required for determination of bromine, chlorine dioxide and ozone in the presence of chlorine
[g] Reagent recovers most insoluble iron oxides without digestion
[h] additionally required for samples with hardness values above 300 mg/l CaCO3
[i] high range by dilution
[j] Vacu-vials® is a Chemetrics Trademark
including stirring rod

Reagents

Test	No. Methods	Range	Wave lengths λ / nm									Method
			MD 100 & MD 110	MD 200	MD 600, MD 610 & MD 640	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect	XD 7000	XD 7500	
Hydrazine	M206	0,01 - 0,6 mg/l	-	-	430	430	-	-	-	-	-	Dimethylamino-benzaldehyd [3]
		5 - 600 µg/l	-	-	-	-	-	-	455	455	455	
Hydrazine [c)]	M207	0,01 - 0,7 mg/l	-	-	430	430	-	-	-	430	430	PDMAB
Hydrogen peroxide	M210	0,03 - 3 mg/l	-	-	530	530	530	-	-	510	510	DPD/Catalysator [5]
		0,03 - 1,5 mg/l	-	-	-	-	-	-	510	-	-	
	M209	0,01 - 0,5 mg/l	-	-	-	-	-	-	510	510	510	
Hydrogen peroxide	M213	1 - 50 mg/l	-	430	430	430	-	-	-	430	430	Peroxotitanium acid
	M214	40 - 500 mg/l [i)]	-	530	530	530	530	-	-	530	530	
Iodine	M215	0,05 - 3,6 mg/l	-	-	530	530	530	-	510	510	510	DPD [5]
Iron (II, III)	M220	0,02 - 1 mg/l	560	560	560	560	560	560	-	562	562	PPST [3]
soluble	M219	0,01 - 0,5 mg/l	-	-	-	-	-	-	562	562	562	
	M218	0,05 - 1 mg/l	-	-	-	-	-	-	562	562	562	
Iron VARIO (II, III)	M222	0,02 - 3 mg/l	530	-	530	530	-	-	-	510	510	1,10-Phenanthrolin [2]
soluble		0,01 - 1,5 mg/l	-	-	-	-	-	-	510	510	510	
Iron VARIO, gesamt [g)]	M223	0,02 - 1,8 mg/l	580	-	580	580	-	-	-	590	590	TPTZ [g)]
		0,1 - 1,8 mg/l	-	-	-	-	-	-	590	-	-	
Iron LR ($Fe^{2+/3+}$)	M225	0,03 - 2,0 mg/l	560	-	560	-	-	-	-	560	560	Ferrozine / Thioglycolate
Iron LR 2 (Fe^{2+} und Fe^{3+})	M226	0,03 - 2,0 mg/l	-	-	560	-	-	-	-	560	560	Ferrozine / Thioglycolate
Iron HR	M227	0,1 - 10 mg/l	-	-	530	-	-	-	-	530	530	Thioglycolate
Iron, total, Fe in Mo	M224	0,01 - 1,8 mg/l	580	-	580	-	-	-	-	580	580	Fe in Mo

MSDS (Material Safety Data Sheets): **www.lovibond.com**

For other reagent quantities please see our current price list.

[1] Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlamm- Untersuchung
[2] Standard Methods for the Examination of Water and Wastewater, 18th Edition; 1992
[3] Photometrische Analysenverfahren, Schwedt, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart; 1989
[4] Photometrische Analyse, Lange/Vejdelek, Verlag Chemie; 1980
[5] Colorimetric Chemical Analytical Methods, 9th Edition, Lovibond®

Green Chemistry

Tube	Display	Reagent	Form of reagent/Quantity	Order code
24 mm ø	N_2H_4	VARIO Hydra 2 Reagent	Solution / 100 ml	53 12 00
24 mm ø	N_2H_4	Vacu-vial® [j]	Test Kit / 30 Adapter for Vacu-vials® [j]	38 04 70 19 20 75
24 mm ø 24 mm ø 50 mm □	H_2O_2	HYDROGENPEROXIDE LR	Tablet / 100	51 23 80 BT
24 mm ø	H_2O_2	H_2O_2 Reagent solution	Liquid reagent / 15 ml	42 49 91
24 mm ø	I	DPD No. 1	Tablet / 100	51 10 50 BT
24 mm ø 50 mm □ 10 mm □	Fe	IRON LR (Fe^{2+} und Fe^{3+}) IRON (II) LR (Fe^{2+})	Tablet / 100 Tablet / 100	51 53 70 BT 51 54 20 BT
24 mm ø	Fe	VARIO Ferro F10	Powder Pack / 100	53 05 60
24 mm ø	Fe	VARIO IRON TPTZ F10	Powder Pack / 100	53 05 50
24 mm ø	Fe	KS61 (Ferrozine / Thioglycolate, FE5) KS63 (Thioglycolate Reagenz, FE6) digestion: KP962 (Ammonium Persulphate Powder) KS135 (Phenolphthalein / Indicator) KS144 (Calcium Hardness Buffer)	Liquid reagent / 65 ml Liquid reagent / 65 ml Powder Liquid reagent / 65 ml Liquid reagent / 65 ml	56L006165 56L006365 56P096240 56L013565 56L014465
24 mm ø	Fe	KS60 FE1 (Acetate Buffer) KS63 FE6 (Thioglycolate Reagent) KS65 FE7 (Ferrozine Reagent) digestion: KP962 (Ammonium Persulphate Powder) KS135 (Phenolphthalein / Indicator) KS144 (Calcium Hardness Buffer)	Liquid reagent / 65 ml Liquid reagent / 65 ml Liquid reagent / 65 ml **Set** Powder Liquid reagent / 65 ml Liquid reagent / 65 ml	56L006065 56L006365 56L006565 56R023490 56P096240 56L013565 56L014465
24 mm ø	Fe	KS160 TH2 FE8 (Total Hardness Buffer) KS63 FE6 (Thioglycolate Reagent) digestion: KP962 (Ammonium Persulphate Powder) KS135 (Phenolphthalein / Indicator) KS144 (Calcium Hardness Buffer)	Liquid reagent / 65 ml Liquid reagent / 65 ml **Set** Powder Liquid reagent / 65 ml Liquid reagent / 65 ml	56L016065 56L006365 56R023590 56P096240 56L013565 56L014465
24 mm ø	Fe	VARIO (Fe in Mo) Rgt 1 VARIO (Fe in Mo) Rgt 2	Powder Pack / 100 Powder Pack / 100 **Set**	53 03 10 53 03 20 53 60 10

[a] determination of free, combined and total
[b] Thermoreactor is necessary for COD (150 °C), TOC (120 °C) and total -chromium, - phosphate, -nitrogen, (100 °C)
[c] MultiDirect: Adapter is necessary for Vacu-vials® (Order code 19 20 75)
[d] Spectroquant® is a Merck KGaA Trademark
[e] alternative reagent, used instead of DPD No.1 / DPD No.3 in case of turbidity in the water sample caused by high concentration of calcium and/or high conductivity
[f] additionally required for determination of bromine, chlorine dioxide and ozone in the presence of chlorine
[g] Reagent recovers most insoluble iron oxides without digestion
[h] additionally required for samples with hardness values above 300 mg/l CaCO3
[i] high range by dilution
[j] Vacu-vials® is a Chemetrics Trademark
including stirring rod

Reagents

Test	No. Methods	Range	MD 100 & MD 110	MD 200	MD 600, MD 610 & MD 640	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect	XD 7000	XD 7500	Method
			Wave lengths λ / nm									
Lead (Pb^{2+})	M232	0,1 - 5 mg/l	-	-	-	-	-	-	520	520	520	4-(2-Pyridylazo)-resorcine
Lead (Pb^{2+})	M234/ M235	0,1 - 5 mg/l	-	-	-	-	-	-	515	515	515	4-(2-Pyridylazo)-resorcine
Manganese	M240	0,2 - 4 mg/l	530	-	530	530	-	-	450	450	450	Formaldoxime
Manganese VARIO LR	M242	0,01 - 0,7 mg/l	560	-	560	560	-	-	558	558	558	PAN
Manganese VARIO HR	M243	0,1 - 18 mg/l	530	-	530	530	-	-	525	525	525	Periodate oxidation [2]
Manganese	M245	0,05 - 5 mg/l	-	-	430	-	-	-	-	450	450	Formaldoxime
Molybdate / Molybdenum	M250	1 - 50 mg/l 1 - 30 mg/l 0,6 - 30 mg/l	- - 430	- - -	430 - -	430 - -	- - -	- - -	- 366 -	366 - -	366 - -	Thioglycolate [4]
Molybdate / Molybdenum VARIO LR	M251	0,05 - 5 mg/l 0,03 - 3 mg/l	- 610	- -	610 610	610 610	- -	- -	610 610	610 610	610 610	Mercaptoacetic acid
Molybdate / Molybdenum VARIO HR	M252	0,5 - 66 mg/l 0,3 - 40 mg/l	- 430	- -	430 430	430 430	- -	- -	420 420	420 420	420 420	Mercaptoacetic acid
Molybdate / Molybdenum HR	M254	1 - 100 mg/l 0,6 - 60 mg/l	- 430	- -	430 430	- -	- -	- -	- -	430 430	430 430	Thioglycolate [4]
Nickel	M255 M256	0,02 - 1 mg/l 0,2 - 7 mg/l	- -	- -	- 430	- 430	- -	- -	443 443	443 443	443 443	Dimethylglyoxime[2, 3]
Nitrate	M260	0,08 - 1 mg/l 0,35 - 4,4 mg/l	- -	- -	530 530	- -	- -	- -	- -	530 530	530 530	Zinc reduction / NED

MSDS (Material Safety Data Sheets): **www.lovibond.com**

For other reagent quantities please see our current price list.

[1] Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlamm- Untersuchung
[2] Standard Methods for the Examination of Water and Wastewater, 18th Edition; 1992
[3] Photometrische Analysenverfahren, Schwedt, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart; 1989
[4] Photometrische Analyse, Lange/Vejdelek, Verlag Chemie; 1980
[5] Colorimetric Chemical Analytical Methods, 9th Edition, Lovibond®

Green Chemistry

Tube	Display	Reagent	Form of reagent/Quantity	Order code
10 mm□	Pb	Spectroquant® 1.09717.0001[d]	Reagent test / 50 Tests	42 07 53
16 mm ø	Pb	Spectroquant® 1.14833.0001[d]	Tube test / 25	42 07 54
24 mm ø	Mn	MANGANESE LR 1 MANGANESE LR 2 Combi pack# MANGANESE LR 1 / LR 2 Combi pack# MANGANESE LR 1 / LR 2	Tablet / 100 Tablet / 100 each 100 each 250	51 60 80 BT 51 60 90 BT 51 76 21 BT 51 76 22 BT
24 mm ø	Mn	VARIO Ascorbic Acid VARIO Alkaline-Cyanide VARIO PAN Indicator VARIO Rochelle Salt Solution [h]	Powder Pack / 100 Liquid reagent / 60 ml Liquid reagent / 60 ml **Set** 30 ml	53 50 90 53 06 40
24 mm ø	Mn	VARIO Manganese Citrate Buffer F10 VARIO Sodiumperiodate F10	Powder Pack / 100 Powder Pack / 100 **Set**	53 51 00
24 mm ø	Mn	KS265 Manganese Reagent A KS266 Manganese Reagent B KS267 Manganese Reagent C	Liquid reagent / 30 ml Liquid reagent / 30 ml Liquid reagent / 30 ml **Set**	56L026530 56L026630 56L030430 56R024055
24 mm ø	MoO_4 MoO_4 Mo	MOLYBDATE No.1 HR MOLYBDATE No.2 HR Combi pack# MOLYBDATE No.1 HR / No.2 HR Combi pack# MOLYBDATE No.1 HR / No.2 HR	Tablet / 100 Tablet / 100 each 100 each 250	51 30 60 BT 51 30 70 BT 51 76 31 BT 51 76 32 BT
24 mm ø	MoO_4 Mo	VARIO MolybdenuM1 LR F20 VARIO MolybdenuM2 LR required accessory: mixing cylinder (not included)	Powder Pack / 100 Liquid reagent/ 50 ml **Set**	53 54 50
24 mm ø	MoO_4 Mo	VARIO MolybdenuMHR1 F10 VARIO MolybdenuMHR2 F10 VARIO MolybdenuMHR3 F10	Powder Pack / 100 Powder Pack / 100 Powder Pack / 100 **Set**	53 53 00
24 mm ø	MoO_4 Mo	KS63 (Thioglycolate Reagent)	Liquid reagent / 65 ml	56L006365
50 mm □ 24 mm ø	Ni	Nickel-51, Nickel-52	Reagent test (Powder, Liquid reagent) / 50 Tests	2 41 90 33
24 mm ø	NO_3 - N NO_3	NITRATE TEST Powder NITRATE TEST Tablet NITRITE LR Nitrate test tube	Powder / 15 g Tablet / 100 Tablet / 100	46 52 30 50 28 10 51 23 10BT 36 62 20

[a] determination of free, combined and total
[b] Thermoreactor is necessary for COD (150 °C), TOC (120 °C) and total -chromium, - phosphate, -nitrogen, (100 °C)
[c] MultiDirect: Adapter is necessary for Vacu-vials® (Order code 19 20 75)
[d] Spectroquant® is a Merck KGaA Trademark
[e] alternative reagent, used instead of DPD No.1 / DPD No.3 in case of turbidity in the water sample caused by high concentration of calcium and/or high conductivity
[f] additionally required for determination of bromine, chlorine dioxide and ozone in the presence of chlorine
[g] Reagent recovers most insoluble iron oxides without digestion
[h] additionally required for samples with hardness values above 300 mg/l CaCO3
[i] high range by dilution
[j] Vacu-vials® is a Chemetrics Trademark
including stirring rod

Reagents

Test	No. Methods	Range	MD 100 & MD 110	MD 200	MD 600, MD 610 & MD 640	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect	XD 7000	XD 7500	Method
			Wave lengths λ / nm									
Nitrate VARIO	M265	1 - 30 mg/l	-	-	430	430	-	-	410	410	410	Chromotropic acid
		4,4 - 132 mg/l	-	-	430	430	-	-	410	410	410	
Nitrate DMP LR	M267	0,5 - 14 mg/l	-	-	-	-	-	-	340	340	340	2,6-Dimethylphenole [3]
		2,2 - 62 mg/l	-	-	-	-	-	-	340	340	340	
Nitrate DMP HR	M268	1,2 - 35 mg/l	-	-	-	-	-	-	340	340	340	2,6-Dimethylphenole [3]
available in Q4!		5,3 - 154 mg/l	-	-	-	-	-	-	340	340	340	
Nitrite	M270	0,01 - 0,5 mg/l	-	-	560	560	-	-	545	540	540	N-(1-Naphthyl)-ethylenediamine [2,3]
		0,03 - 0,16 mg/l	-	-	560	560	-	-	545	540	540	
Nitrite LR	M275	0,03 - 0,6 mg/l	-	-	-	-	-	-	545	545	545	Sulfanil/Naphthylamine [1]
		0,1 - 2 mg/l	-	-	-	-	-	-	545	545	545	
Nitrite HR	M276	0,3 - 3 mg/l	-	-	-	-	-	-	545	545	545	Sulfanil/Naphthylamine [1]
		1 - 10 mg/l	-	-	-	-	-	-	545	545	545	
Nitrite LR VARIO	M272	0,01 - 0,3 mg/l	-	-	530	530	-	-	507	507	507	Diazotation
		0,03 - 1 mg/l	-	-	530	530	-	-	507	507	507	
Nitrogen-total [b] **LR**	M283	0,5 - 14 mg/l	-	-	-	-	-	-	340	340	340	2,6-Dimethylphenole [2,3]
DMP HR	M284	5 - 140 mg/l [i]	-	-	-	-	-	-	340	340	340	
Nitrogen-total DMP LR	M283	0,5 - 14 mg/l	-	-	-	-	-	-	340	340	340	2,6-Dimethylphenole [2,3]
Nitrogen-total DMP HR	M284	5 - 140 mg/l	-	-	-	-	-	-	340	340	340	2,6-Dimethylphenole [2,3]
Nitrogen VARIO total LR [b]	M280	0,5 - 25 mg/l	-	-	430	430	-	-	410	410	410	Persulphate-digestion method
Nitrogen VARIO, total HR [b]	M281	5 - 150 mg/l	-	-	430	430	-	-	410	410	410	Persulphate-digestion method
Oxygen, active	M290	0,1 - 10 mg/l	-	-	530	530	530	-	-	510	510	DPD
Oxygen, dissolved	M292	10 - 800 µg/l	530	-	530	530	-	-	-	-	-	Rodazin D ™
		10 - 1100 µg/l	-	-	-	-	-	-	-	547	547	

MSDS (Material Safety Data Sheets): **www.lovibond.com**

For other reagent quantities please see our current price list.

[1] Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlamm- Untersuchung
[2] Standard Methods for the Examination of Water and Wastewater, 18th Edition; 1992
[3] Photometrische Analysenverfahren, Schwedt, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart; 1989
[4] Photometrische Analyse, Lange/Vejdelek, Verlag Chemie; 1980
[5] Colorimetric Chemical Analytical Methods, 9th Edition, Lovibond®

Green Chemistry

Tube	Display	Reagent	Form of reagent/Quantity	Order code
16 mm ø	NO_3 - N NO_3	VARIO Nitrate Chromotropic VARIO Nitra X Reagent tube VARIO Deionised Water (for Zero)	Powder Pack / 50 Reaction tube / 50 Bottle, 100 ml **Set** (Tube test)	53 55 80
16 mm ø	NO_3 - N NO_3	Reaction tube, Nitrate-111	Tube test / 24	2 42 07 02 without Barcode 2 42 33 40 with Barcode
16 mm ø	NO_3 - N NO_3	Reaction tube, Nitrate-111	Tube test / 24	2 42 33 70 with Barcode
24 mm ø	NO_2 - N NO_2	NITRITE LR	Tablet / 100	51 23 10 BT
16 mm ø	NO_2 - N NO_2	Reaction tube, Nitrite-101	Tube test / 24	2 41 90 18 without Barcode 2 42 34 20 with Barcode
16 mm ø	NO_2 - N NO_2	Reaction tube, Nitrite HR	Tube test / 24	2 42 34 70 with Barcode
24 mm ø	NO_2 - N NO_2	VARIO Nitri 3	Powder Pack / 100	53 09 80
16 mm ø	N	Digestion reagent, Compensation reagent, Nitrate-111	Tube test / 24	2 42 07 03 without Barcode
16 mm ø	N	Digestion reagent, Compensation reagent, Nitrate-111	Tube test / 24	2 42 35 40 with Barcode
16 mm ø	N	Digestion reagent, Compensation reagent, Nitrate-111	Tube test / 24	2 42 35 70 with Barcode
16 mm ø	N	VARIO TN HYDROX. LR Tubes VARIO PERSULFATE Reagent VARIO TN Reagent A VARIO TN Reagent B VARIO TN ACID LR/HR Tubes VARIO Deionised Water (for Zero)	Digestion tubes / 50 Powder Pack / 50 Powder Pack / 50 Powder Pack / 50 Reaction tuben / 50 Bottle, 100 ml **Set** (Tube test)	53 55 50
16 mm ø	N	VARIO TN HYDROX. HR Tubes VARIO PERSULFATE Reagent VARIO TN Reagent A VARIO TN Reagent B VARIO TN ACID LR/HR Tubes VARIO Deionised Water (for Zero)	Digestion tubes / 50 Powder Pack / 50 Powder Pack / 50 Powder Pack / 50 Reaction tubes / 50 Bottle, 100 ml **Set** (Tube test)	53 55 60
	O_2	DPD No. 4	Tablet / 100	51 12 20 BT
13 mm ø	O_2	Vacu-vial® [j]	Liquid reagent / 30 Adapter for Vacu-vials® [j]	38 04 50 19 20 75

[a] determination of free, combined and total
[b] Thermoreactor is necessary for COD (150 °C), TOC (120 °C) and total -chromium, - phosphate, -nitrogen, (100 °C)
[c] MultiDirect: Adapter is necessary for Vacu-vials® (Order code 19 20 75)
[d] Spectroquant® is a Merck KGaA Trademark
[e] alternative reagent, used instead of DPD No.1 / DPD No.3 in case of turbidity in the water sample caused by high concentration of calcium and/or high conductivity
[f] additionally required for determination of bromine, chlorine dioxide and ozone in the presence of chlorine
[g] Reagent recovers most insoluble iron oxides without digestion
[h] additionally required for samples with hardness values above 300 mg/l CaCO3
[i] high range by dilution
[j] Vacu-vials® is a Chemetrics Trademark
including stirring rod

Reagents

Test	No. Methods	Range	Wave lengths λ / nm									Method
			MD 100 & MD 110	MD 200	MD 600, MD 610 & MD 640	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect	XD 7000	XD 7500	
Ozone	M300	0,02 - 1 mg/l	-	-	-	-	-	-	510	-	-	DPD/Glycine [5]
		0,02 - 2 mg/l	530	530	530	530	530	530	-	510	510	
	M299	0,02 - 0,5 mg/l	-	-	-	-	-	-	510	510	510	
Ozone Powder	M301	0,015 - 2 mg/l	-	-	530	530	-	-	510	510	510	DPD/Glycine [5]
Phenoles	M315	0,1 - 5 mg/l	-	-	-	-	-	-	507	507	507	4-Aminoantipyrine [1]
PHMB (Biguanides)	M70	2 - 60 mg/l	-	-	560	560	560	-	-	560	560	Buffer/Indicator
Phosphate-total LR [b)]	M317	0,07 - 3 mg/l	-	-	-	-	-	-	690	690	690	Phosphomolybdenum blue
		0,2 - 10 mg/l	-	-	-	-	-	-	690	690	690	/ Ascorbic acid [2]
Phosphate-total HR [b)]	M318	1,5 - 20 mg/l	-	-	-	-	-	-	690	690	690	Phosphomolybdenum blue
		5 - 60 mg/l	-	-	-	-	-	-	690	690	690	/ Ascorbic acid [2]
Phosphate LR, ortho	M320	0,016 - 1,3 mg/l	660	-	660	660	610	610	710	710	710	Phosphomolybdenum blue
		0,05 - 4 mg/l	660	-	660	660	610	610	710	710	710	/ Ascorbic acid [2]
Phosphate HR, ortho	M321	0,33 - 26 mg/l	-	-	430	430	-	-	470	470	470	Vanadomolybdate [2]
		1 - 80 mg/l	-	-	430	430	-	-	470	470	470	
Phosphate VARIO ortho	M323	0,02 - 0,82 mg/l	660	-	660	660	-	-	890	890	890	Phosphomolybdenum blue
		0,06 - 2,5 mg/l	660	-	660	660	-	-	890	890	890	/ Ascorbic acid [2]
Phosphate VARIO ortho	M324	0,02 - 1,6 mg/l	-	-	660	660	-	-	890	890	890	Phosphomolybdenum blue
		0,06 - 5 mg/l	-	-	660	660	-	-	890	890	890	/ Ascorbic acid [2]
Phosphate-ortho	M322	1 - 20 mg/l	-	-	-	-	-	-	438	438	438	Vanadomolybdate [2]
		3 - 60 mg/l	-	-	-	-	-	-	438	438	438	
Phosphate VARIO [b)] acid hydrolyzable and total		acid hydrolyzable:										
	M325	0,02 - 1,6 mg/l	-	-	660	660	-	-	890	890	890	Acid digestion
		0,06 - 5 mg/l	-	-	660	660	-	-	890	890	890	Phosphomolybdenum blue/ Ascorbic acid [2]
		total:										Acid-/ Persulphate digestion
	M326	0,02 - 1,1 mg/l										Phosphomolybdenum blue/ Ascorbic acid [2]
		0,06 - 3,5 mg/l										

MSDS (Material Safety Data Sheets): **www.lovibond.com**

For other reagent quantities please see our current price list.

[1] Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlamm- Untersuchung
[2] Standard Methods for the Examination of Water and Wastewater, 18th Edition; 1992
[3] Photometrische Analysenverfahren, Schwedt, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart; 1989
[4] Photometrische Analyse, Lange/Vejdelek, Verlag Chemie; 1980
[5] Colorimetric Chemical Analytical Methods, 9th Edition, Lovibond®

Green Chemistry

Tube	Display	Reagent	Form of reagent/Quantity	Order code
24 mm ø	O_3	O_3 in absence of Cl_2:		
24 mm ø		DPD No. 1	Tablet / 100	51 10 50 BT
50 mm □		DPD No. 3	Tablet / 100	51 10 80 BT
		O_3 beside Cl_2:		
		Combi pack# DPD No.1 / No.3	each 100	51 77 11 BT
		Combi pack# DPD No.1 / No.3	each 250	51 77 12 BT
		GLYCINE [f]	Tablet / 100	51 21 70 BT
24 mm ø	O_3	Chlorine total - DPD /F10	Powder Pack / 100	53 01 20
		GLYCINE	Tablet / 100	51 21 70 BT
24 mm ø	$C_6H_5O_H$	PHENOLE No. 1	Tablet / 100	51 59 50 BT
		PHENOLE No. 2	Tablet / 100	51 59 60 BT
24 mm ø	PHMB	PHMB PHOTOMETER	Tablet / 100	51 61 00 BT
16 mm ø	PO_4 - P	Reaction tube, Phosphate-101,	Tube test / 24	2 41 90 19 with Barcode
	PO_4	Phosphate- 102, Phosphate-103	Tube test / 24	
16 mm ø	PO_4 - P	Reaction tube, Phosphate-101,	Tube test / 24	2 42 07 00 with Barcode
	PO_4	Phosphate-102, Phosphate-103		
24 mm ø	PO_4 - P	PHOSPHATE No. 1 LR	Tablet / 100	51 30 40 BT
	PO_4	PHOSPHATE No. 2 LR	Tablet / 100	51 30 50 BT
		Combi pack# PHOSPHATE No.1 LR / No.2 LR	each 100	51 76 51 BT
24 mm ø	PO_4 - P	PHOSPHATE No. 1 HR	Tablet / 100	51 58 10 BT
	PO_4	PHOSPHATE No. 2 HR	Tablet / 100	51 58 20 BT
		Combi pack# PHOSPHATE No.1 HR / No.2 HR	each 100	51 76 61 BT
24 mm ø	PO_4 - P	VARIO Phosphate Rgt., F10	Powder Pack / 100	53 15 50
	PO_4			
16 mm ø	PO_4 - P	VARIO Dilution Vial	50 Tubes	53 52 00 with Barcode
	PO_4	VARIO PHOSPHATE RGT, F10	Powder Pack / 50	
		VARIO Deionised Water (for Zero)	Bottle, 100 ml	
			Set (Tube test)	
16 mm ø	PO_4 - P	Reaction tube	Tube test / 24	2 42 07 01 with Barcode
	PO_4			
16 mm ø	PO_4 - P	VARIO Acid Reagent Vial	50 Tubes	53 52 50 with Barcode
16 mm ø	PO_4	VARIO PHOSPHATE RGT, F10	Powder Pack / 50	
	PO_4 - P	VARIO Deionised Water (for Zero)	Bottle, 100 ml	
	PO_4	1N NaOH	Bottle / 100 ml	
		1,54 N NaOH	Bottle / 100 ml	
		VARIO Potassium Persulfate F10	Powder Pack / 50	
			Set (Tube test)	

[a] determination of free, combined and total

[b] Thermoreactor is necessary for COD (150 °C), TOC (120 °C) and total -chromium, - phosphate, -nitrogen, (100 °C)

[c] MultiDirect: Adapter is necessary for Vacu-vials® (Order code 19 20 75)

[d] Spectroquant® is a Merck KGaA Trademark

[e] alternative reagent, used instead of DPD No.1 / DPD No.3 in case of turbidity in the water sample caused by high concentration of calcium and/or high conductivity

[f] additionally required for determination of bromine, chlorine dioxide and ozone in the presence of chlorine

[g] Reagent recovers most insoluble iron oxides without digestion

[h] additionally required for samples with hardness values above 300 mg/l CaCO3

[i] high range by dilution

[j] Vacu-vials® is a Chemetrics Trademark

including stirring rod

Reagents

Test	No. Methods	Range	Wave lengths λ / nm									Method
			MD 100 & MD 110	MD 200	MD 600, MD 610 & MD 640	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect	XD 7000	XD 7500	
Phosphate VARIO [b]	M326	0,02 - 1,1 mg/l	-	-	660	660	-	-	890	890	890	Acid-/Persulphate digestion Phosphomolybdenum blue Ascorbic acid [2]
total		0,06 - 3,5 mg/l	-	-	660	660	-	-	890	890	890	
Phosphate, ortho [c]	M328	0,016 - 1,6 mg/l	-	-	660	660	-	-	-	660	660	Stannous chloride [2]
		0,05 - 5 mg/l	-	-	660	660	-	-	-	660	660	
Phosphate, ortho [c]	M327	1,6 - 13 mg/l	-	-	430	430	-	-	-	430	430	Vanadomolybdate [2]
		5 - 40 mg/l	-	-	430	430	-	-	-	430	430	
Phosphate LR	M334	0,033 - 3,3 mg/l	-	-	660	-	-	-	-	660	660	Phosphomolybdic acid// Ascorbic acid [2]
		0,1 - 10 mg/l	-	-	660	-	-	-	-	660	660	
Phosphate HR, ortho	M335	1,63 - 26 mg/l	430	-	430	-	-	-	-	430	430	Vanadomolybdate [2]
		5 - 80 mg/l	430	-	430	-	-	-	-	430	430	
Phosphonate VARIO	M316	0,02 - 125 mg/l	-	-	660	660	-	-	890	890	890	Persulfate UV-Oxidation
pH value	M329	5,2 - 6,8	-	-	560	560	560	-	-	560	560	Bromcresol purple [5]
pH value	M330	6,5 - 8,4	560	560	560	560	560	560	558	558	558	Phenol red [5]
pH value	M331	6,5 - 8,4	560	560	560	560	560	-	558	558	558	Phenol red [5]
pH value	M332	8,0 - 9,6	-	-	560	560	560	-	-	560	560	Thymol blue [5]
Polyacrylates	M338	1 - 30 mg/l	530	-	660	-	-	-	-	660	660	Turbidity

MSDS (Material Safety Data Sheets): **www.lovibond.com**

For other reagent quantities please see our current price list.

[1] Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlamm- Untersuchung
[2] Standard Methods for the Examination of Water and Wastewater, 18th Edition; 1992
[3] Photometrische Analysenverfahren, Schwedt, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart; 1989
[4] Photometrische Analyse, Lange/Vejdelek, Verlag Chemie; 1980
[5] Colorimetric Chemical Analytical Methods, 9th Edition, Lovibond®

Green Chemistry

Tube	Display	Reagent	Form of reagent/Quantity	Order code
16 mm ø	PO_4 - P	VARIO Acid Reagent Vial	50 Tubes	53 52 10 with Barcode
16 mm ø	PO_4	VARIO PHOSPHATE RGT, F10	Powder Pack / 50	
		VARIO Deionised Water (for Zero)	Bottle, 100 ml	
		1,54 N NaOH	Bottle / 100 ml	
		VARIO Potassium Persulfate F10	Powder Pack / 50	
			Set (Tube test)	
	PO_4 - P	Vacu-vial® [j]	Test Kit / 30	38 04 80
	PO_4		Adapter for Vacu-vials® [j]	19 20 75
	PO_4 - P	Vacu-vial® [j]	Test Kit / 30	38 04 60
	PO_4		Adapter for Vacu-vials® [j]	19 20 75
24 mm ø	PO_4 - P	KS80 (CRP Reagent)	Liquid reagent / 2 x 65 ml	56L008065
	PO_4	KP119 (Ascorbic acid)	Powder / 20 g	56P011920
			Set	56R023765
		Digestion reagents:		
		KS278 (50 % Sulfuric Acid)	Liquid reagent / 65 ml	56L027865
		KS135 (Phenolphthalein Indicator)	Liquid reagent / 65 ml	56L013565
		KS144 (Calcium Hardness Buffer)	Liquid reagent / 65 ml	56L014465
		KP962 (Ammonium Persulfate Powder)	Powder / 40 g	56P096240
24 mm ø	PO_4 - P	KS228 (Ammonium Molybdate)	Liquid reagent / 65 ml	56L022865
	PO_4	KS229 (Ammonium Metavanadate)	Liquid reagent / 65 ml	56L022965
			Set	56R019090
		Option Polyphosphate		
		KS278 (50 % Sulfuric Acid)	Liquid reagent / 65 ml	56L027865
		KS135 (Phenolphthalein Indicator)	Liquid reagent / 65 ml	56L013565
		KS144 (Calcium Hardness Buffer)	Liquid reagent / 65 ml	56L014465
		KP962 (Ammonium Persulfate Powder)	Powder / 40 g	56P096240
24 mm ø	PO_4	VARIO Potassium Persulfate F10	Powder Pack / 100	
		VARIO PHOSPHATE RGT, F10	Powder Pack / 200	
			Set	53 52 20
24 mm ø	pH	BROMOCRESOLPURPLE/PHOTOMETER	Tablet / 100	51 57 00 BT
24 mm ø	pH	PHENOLRED / PHOTOMETER	Tablet / 100	51 17 70 BT
24 mm ø	pH	PHENOLRED Solution	Liquid reagent / 15 ml	47 10 40
24 mm ø	pH	THYMOLBLUE / PHOTOMETER	Tablet / 100	51 57 10 BT
24 mm ø	Polyacryl	KS255 (Polyacrylate Reagent 1)	Liquid reagent / 65 ml	56L025565
		KS256 (Polyacrylate Reagent 2)	Liquid reagent / 65 ml	56L025665
			Set	56R019165
			Liquid reagent / 65 ml	56L033665
		KS336 (Propan-2-ol)		56A020101
		C18 (Cartouche)		
		KS173 (2,4 Dinitrophenol)	Liquid reagent / 65 ml	56L017365
		KT183 (Nitric Acid)	Liquid reagent / 65 ml	56L018365



[a] determination of free, combined and total
[b] Thermoreactor is necessary for COD (150 °C), TOC (120 °C) and total -chromium, - phosphate, -nitrogen, (100 °C)
[c] MultiDirect: Adapter is necessary for Vacu-vials® (Order code 19 20 75)
[d] Spectroquant® is a Merck KGaA Trademark
[e] alternative reagent, used instead of DPD No.1 / DPD No.3 in case of turbidity in the water sample caused by high concentration of calcium and/or high conductivity
[f] additionally required for determination of bromine, chlorine dioxide and ozone in the presence of chlorine
[g] Reagent recovers most insoluble iron oxides without digestion
[h] additionally required for samples with hardness values above 300 mg/l CaCO3
[i] high range by dilution
[j] Vacu-vials® is a Chemetrics Trademark
including stirring rod

Reagents

Test	No. Methods	Range	MD 100 & MD 110	MD 200	MD 600, MD 610 & MD 640	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect	XD 7000	XD 7500	Method
			Wave lengths λ / nm									
Potassium	M340	0,7 - 16 mg/l	-	-	660	430	-	-	730	730	730	Tetraphenylborate-Turbidity [4]
PTSA (only MD 640)	M500	10 - 1000 ppb	-	-	> 395	-	-	-	-	-	-	Fluorescence
Silica VLR new!	M349	5 - 500 µg/l	-	-	-	-	-	-	820	820	820	Heteropolyblue [2]
Silica	M350	0,05 - 4 mg/l 0,05 - 3 mg/l 0,05 - 4 mg/l	660 - -	- - -	660 - -	660 - -	- - -	- - -	- 820 -	820 - 820	820 - 820	Silicomolybdate [2,3]
Silica VARIO LR	M351	0,1 - 1,6 mg/l 0,05 - 1,6 mg/l	660 -	- -	660 -	660 -	- -	- -	815 -	- 815	- 815	Heteropolyblue [2]
Silica VARIO HR	M352	1 - 90 mg/l 1 - 100 mg/l	430 -	- -	430 -	430 -	- -	- -	- 452	- 452	- 452	Silicomolybdate [2,3]
Silica	M353	0,1 - 8 mg/l	-	-	430	-	-	-	-	660	660	Heteropolyblue [2]
Sodiumhypochlorite	M212	0,2 - 16 % 0,2 - 17 %	- -	- -	530 -	530 -	530 -	530 -	- -	- 470	- 470	Potassium iodide [5]
Spectral Absorption-coefficient (S.A.K.)	M344 M345 M346 M347	0,5 - 50 m^{-1}	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- 436 525 620	- 436 436 620	254 436 436 620	Direct reading [1] ISO 7887:1994
Spectral Absorption-coefficient (S.A.K.)	M344 M345 M346 M347	3 - 250 m^{-1}	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- 436 525 620	254 436 525 620	Direct reading[1] ISO 7887:1994
Sulphate VARIO	M360 M361	5 - 100 mg/l 50 - 1000 mg/l	530 -	- -	530 530	530 530	530 -	- -	450 530	530 530	530 530	Bariumsulphate Turbidity [2]
Sulphate	M355	5 - 100 mg/l	-	-	610	610	610	-	-	610	610	Bariumsulphate Turbidity [2]

MSDS (Material Safety Data Sheets): **www.lovibond.com**

For other reagent quantities please see our current price list.

[1] Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlamm- Untersuchung
[2] Standard Methods for the Examination of Water and Wastewater, 18th Edition; 1992
[3] Photometrische Analysenverfahren, Schwedt, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart; 1989
[4] Photometrische Analyse, Lange/Vejdelek, Verlag Chemie; 1980
[5] Colorimetric Chemical Analytical Methods, 9th Edition, Lovibond®

Green Chemistry

Tube	Display	Reagent	Form of reagent/Quantity	Order code
24 mm ø	K	POTASSIUM T	Tablet / 100	51 56 70BT
24 mm ø	PTSA	no reagents required		
50 mm □	SiO_2	Heptamolybdate Reagent Tartaric Acid Reagent Silica Amino Acid F10	Liquid reagent / 20 ml Liquid reagent / 20 ml Powder Pack / 100 Set	47 10 70 47 10 80 53 16 00 54 43 002
24 mm ø 10 mm □ 10 mm □	SiO_2	SILICA No. 1 SILICA No.2 Combi pack# SILICA No.1 / No.2 Combi pack# SILICA No.1 / No.2 SILICA PR	Tablet / 100 Tablet / 100 each 100 each 250 Tablet / 100	51 31 30 BT 51 31 40 BT 51 76 71 BT 51 76 72 BT 51 31 50 BT
24 mm ø 24 mm ø	SiO_2	VARIO Amino Acid F10 VARIO Citric Acid F10 VARIO Molybdate 3 Reagent solution	Powder Pack / 100 Powder Pack / 200 Liquid reagent / 2 x 50 ml **Set**	 53 56 90
24 mm ø 24 mm ø	SiO_2	VARIO Silica HR Molybdate F10 VARIO Silica HR Acid Rgt F10 VARIO Silica HR Citric Acid F10	Powder Pack / 100 Powder Pack / 100 Powder Pack / 100 **Set**	 53 57 00
24 mm ø	SiO_2	KS104 (Silica Reagent 1) KS105 (Silica Reagent 2) KP106 (Silica Reagent 3)	Liquid reagent / 65 ml Liquid reagent / 65 ml Powder / 10 g **Set**	56L010465 56L010565 56P010610 56R023856
24 mm ø	NaOCl	ACIDIFYING GP CHLORINE HR (KI) Combi pack# CHLORINE HR (KI)/ACIDIFYING GP Combi pack# CHLORINE HR (KI)/ACIDIFYING GP Dilution set for sample preparation	Tablet / 100 Tablet / 100 each 100 each 250 **1 Set**	51 54 80 BT 51 30 00 BT 51 77 21 BT 51 77 22 BT 41 44 70
50 mm □	-	no reagents required	-	-
10 mm □	-	no reagents required		
24 mm ø	SO_4	VARIO Sulpha 4 / F10	Powder Pack / 100	53 21 60
24 mm ø	SO_4	SULPHATE T	Tablet / 100	51 54 50 BT

a) determination of free, combined and total
b) Thermoreactor is necessary for COD (150 °C), TOC (120 °C) and total -chromium, - phosphate, -nitrogen, (100 °C)
c) MultiDirect: Adapter is necessary for Vacu-vials® (Order code 19 20 75)
d) Spectroquant® is a Merck KGaA Trademark
e) alternative reagent, used instead of DPD No.1 / DPD No.3 in case of turbidity in the water sample caused by high concentration of calcium and/or high conductivity
f) additionally required for determination of bromine, chlorine dioxide and ozone in the presence of chlorine
g) Reagent recovers most insoluble iron oxides without digestion
h) additionally required for samples with hardness values above 300 mg/l CaCO3
i) high range by dilution
j) Vacu-vials® is a Chemetrics Trademark
including stirring rod

Reagents

Test	No. Methods	Range	MD 100 & MD 110	MD 200	MD 600, MD 610 & MD 640	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect	XD 7000	XD 7500	Method
			Wave lengths λ / nm									
Sulphide	M365	0,04 - 0,5 mg/l	-	-	660	660	-	-	668	668	668	DPD/Catalysator [3, 4]
Sulphite	M370	0,1 - 5 mg/l	-	-	430	430	-	-	-	405	405	DTNB
		0,05 - 4 mg/l	-	-	-	-	-	-	405	-	-	
	M368	0,1 - 10 mg/l	-	-	-	-	-	-	405	405	405	
Surfactants (anionic)	M376	0,05 - 2 mg/l	-	-	660	660	-	-	660	660	660	Methylene blue[1]
Surfactants (cationic)	M378	0,05 - 1,5 mg/l	-	-	610	610	-	-	610	610	610	Disulphine blue
Surfactants (non ionic)	M377	0,1 - 7,5 mg/l	-	-	610	610	-	-	610	610	610	TBPE
Suspended solids	M384	10 - 750 mg/l	660	-	660	660	-	-	660	810	810	Turbidity/Attenuated
									660	810	810	Radiation
TOC [b)]	M380	5 - 80 mg/l	-	-	610	610	-	-	596	610	610	H_2SO_4/ Indicator
TOC [b)]	M381	50 - 800 mg/l	-	-	610	610	-	-	596	610	610	H_2SO_4/ Indicator
Triazoles (UV-lamp required)	M388	1 - 16 mg/l	430	-	430	-	-	-	-	430	430	Catalyzed UV Digestion
Turbidity	M385	5 - 500	-	-	-	-	-	-	860	860	860	Attenuated Radiation Meth.
	M386	10 - 1000	-	-	530	530	-	-	-	860	860	Attenuated Radiation Meth.
Urea	M390	0,1 - 2,5 mg/l	610	610	610	610	610	-	-	676	676	Urease / Indophenol
		0,1 - 2 mg/l	-	-	-	-	-	-	676	-	-	
	M391	0,2 - 5 mg/l [i)]	610	610	-	-	-	-	-	-	-	
Zinc	M400	0,02 - 1 mg/l	-	-	610	610	-	-	-	616	616	Zincon[3]/EDTA
		0,02 - 0,5 mg/l	-	-	-	-	-	-	616	-	-	
Zinc	M405	0,1 - 2,5 mg/l	610	-	610	-	-	-	-	610	610	Zincon[3]/EDTA

MSDS (Material Safety Data Sheets): **www.lovibond.com**

For other reagent quantities please see our current price list.

[1] Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlamm- Untersuchung
[2] Standard Methods for the Examination of Water and Wastewater, 18th Edition; 1992
[3] Photometrische Analysenverfahren, Schwedt, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart; 1989
[4] Photometrische Analyse, Lange/Vejdelek, Verlag Chemie; 1980
[5] Colorimetric Chemical Analytical Methods, 9th Edition, Lovibond®

Green Chemistry

Tube	Display	Reagent	Form of reagent/Quantity	Order code
24 mm ø	S	Sulphide No. 1 Sulphide No. 2	Tablet / 100 Tablet / 100	50 29 30 50 29 40
24 mm ø 24 mm ø 10 mm □	SO_3	SULPHITE LR	Tablet / 100	51 80 20 BT
16 mm ø	MBAS	Spectroquant® 1.02552.0001	Tube test / 25	42 07 63
16 mm ø	CTAB	Spectroquant® 1.01764.0001	Tube test / 25	42 07 65
16 mm ø	Triton® X-100	Spectroquant® 1.01787.0001	Tube test / 25	42 07 64
24 mm ø 50 mm □	TSS	no reagents required	-	-
16 mm ø	TOC	Spectroquant® 1.14878.0001[d])	Tube test / 25 Aluminium screwcaps / 6 pc.	42 07 61 42 07 57
16 mm ø	TOC	Spectroquant® 1.14879.0001[d])	Tube test / 25 Aluminium screwcaps / 6 pc.	42 07 56 42 07 57
24 mm ø	Benzo-triazole	VARIO Triazole Rgt F25	Powder Pack / 100	53 22 00
50 mm □ 24 mm ø	FAU FAU	no reagents required	-	-
24 mm ø	CH_4N_2O	UREA-Reagent 1 UREA-Reagent 2 AMMONIA No. 1 AMMONIA No. 2 Combi pack# AMMONIA No.1 / No.2 Combi pack# AMMONIA No.1 / No.2 (without Urea-Reagent 1 and 2, please order seperatly) UREA PRETREAT (compensates for the interference of free Chlorine up to 2 mg/l) UREA Reagent Set, contains: UREA-Reagent 1/2, AMMONIA No.1/2, UREA PRETREAT	Liquid reagent / 15 ml Liquid reagent / 10 ml Tablet / 100 Tablet / 100 each 100 each 250 Tablet / 100 **Set**	45 93 00 45 94 00 51 25 80 BT 51 25 90 BT 51 76 11 BT 51 76 12 BT 51 61 10 BT 51 78 00 BT
24 mm ø	Zn	COPPER/ZINC LR EDTA DECHLOR (in case of high levels of residual chlorine)	Tablet / 100 Tablet / 100 Tablet / 100	51 26 20 BT 51 23 90 BT 51 23 50 BT
24 mm ø	Zn	KS243 (Zinc Reagent 1) KP244 (Zinc Reagent 2)	Liquid reagent / 65 ml Powder / 20 g **Set**	56L024365 56L024420 56R023965

a) determination of free, combined and total
b) Thermoreactor is necessary for COD (150 °C), TOC (120 °C) and total -chromium, - phosphate, -nitrogen, (100 °C)
c) MultiDirect: Adapter is necessary for Vacu-vials® (Order code 19 20 75)
d) Spectroquant® is a Merck KGaA Trademark
e) alternative reagent, used instead of DPD No.1 / DPD No.3 in case of turbidity in the water sample caused by high concentration of calcium and/or high conductivity
f) additionally required for determination of bromine, chlorine dioxide and ozone in the presence of chlorine
g) Reagent recovers most insoluble iron oxides without digestion
h) additionally required for samples with hardness values above 300 mg/l CaCO3
i) high range by dilution
j) Vacu-vials® is a Chemetrics Trademark
including stirring rod