

Reagents

Test	Range	Wave lengths λ / nm							Method	Cuvette
		MD 100	MD 200	MD 600 & MD 610	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect		
Alkalinity-M	5 - 200 mg/l	610	610	610	610	610	610	615	Acid/Indicator ^{1,2,5}	24 mm \emptyset
Alkalinity-M HR	5 - 500 mg/l	-	-	610	610	610	610	615	Acid/Indicator ^{1,2,5}	24 mm \emptyset
Alkalinity-P	5 - 300 mg/l	-	-	560	560	-	-	551	Acid/Indicator ^{1,2,5}	24 mm \emptyset
Aluminium VARIO	0.01 - 0.25 mg/l	530	-	530	530	530	-	535	Eriochrome cyanine R ²	24 mm \emptyset
Aluminium	0.01 - 0.3 mg/l	530	-	530	530	530	-	535	Eriochrome cyanine R ²	24 mm \emptyset
Ammonia	0.02 - 1 mg/l	610	-	610	610	610	-	676	Indophenole blue ^{2,3}	24 mm \emptyset
Ammonia VARIO	0.01 - 0.8 mg/l	660	-	660	660	-	-	655	Salicylate ²	24 mm \emptyset
Ammonia VARIO LR	0.02 - 2.5 mg/l	-	-	660	660	-	-	655	Salicylate ²	16 mm \emptyset
Ammonia VARIO HR	1 - 50 mg/l	-	-	660	660	-	-	655	Salicylate ²	16 mm \emptyset
Arsenic (III, IV)	0.02 - 0.6 mg/l	-	-	-	-	-	-	507	Silver diethyldithiocarbamate ¹	20 mm \square

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

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Legend

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² Standard Methods for the Examination of Water and Wastewater, 18th Edition; 1992

³ Photometrische Analysenverfahren, Schwedt, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart; 1989

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		MD 100	MD 200	MD 600 & MD 610	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect		
Biguanide (see PHMB)										
Boron	0.1 - 2 mg/l	-	-	430	430	-	-	450	Azomethine ³	24 mm \emptyset
Bromine	0.05 - 13 mg/l 0.05 - 1 mg/l 0.1 - 3 mg/l 0.05 - 6.5 mg/l	530 - - -	530 - - -	530 - - -	530 - - -	530 - - -	530 - - -	- 510 510 510	DPD ⁵	24 mm \emptyset 50 mm \square 10 mm \square 24 mm \emptyset
Bromine VARIO	0.05 - 4.5 mg/l	-	-	530	530	-	-	-	DPD ^{1,2}	24 mm \emptyset
Cadmium (Cd²⁺)	0.025 - 0.75 mg/l	-	-	-	-	-	-	525	Cadion	16 mm \emptyset
Chloride	0.5 - 25 mg/l 5 - 250 mg/l ¹⁾	530 530	- -	530 -	530 -	- -	- -	450 -	Silver nitrate/turbidity	24 mm \emptyset
Chloride	5 - 60 mg/l	-	-	-	-	-	-	455	Iron (III)-thiocyanate ⁴	24 mm \emptyset
Chloride	0.5 - 20 mg/l	430	-	430	-	-	-	-	Mercury thiocyanate / Iron nitrate	24 mm \emptyset
Chlorine ^{a)}	0.01 - 6 mg/l 0.02 - 0.5 mg/l 0.1 - 6 mg/l 0.02 - 3 mg/l	530 - - -	530 - - -	530 - - -	530 - - -	530 - - -	530 - - -	- 510 510 510	DPD ^{1,2}	24 mm \emptyset 50 mm \square 10 mm \square 24 mm \emptyset
Chlorine HR (DPD) ^{a)}	0.1 - 10 mg/l	530	530	530	530	530	530	510	DPD ^{1,2}	24 mm \emptyset

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		MD 100	MD 200	MD 600 & MD 610	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect		
Chlorine ^{a)}	0.02 - 4 mg/l 0.02 - 3 mg/l	530 -	530 -	530 -	530 -	530 -	- -	- 510	DPD ^{1,2}	24 mm \emptyset 24 mm \emptyset
Chlorine VARIO ^{a)}	0.02 - 2 mg/l 0.1 - 8 mg/l	530 530	- -	530 530	530 -	530 530	- -	510 -	DPD ^{1,2}	24 mm \emptyset 24 mm \emptyset multy vial
Chlorine HR (KI)	5 - 200 mg/l	530	-	530	530	-	-	470	KI / Acid ⁵	16 mm \emptyset
Chlorine dioxide	0.02 - 11 mg/l 0.05 - 1 mg/l 0.05 - 2.5 mg/l	530 - -	530 - -	530 - -	530 - -	530 - -	- - -	- 510 510	DPD/Glycine ^{1,2}	24 mm \emptyset 50 mm \square 24 mm \emptyset
Chlorine dioxide VARIO	0.04 - 3.8 mg/l	530	-	530	530	-	-	-	DPD ^{1,2}	24 mm \emptyset
Chromium (III, VI) ^{b)}	0.005 - 0.5 mg/l 0.02 - 2 mg/l	- -	- -	- 530	- -	- -	- -	542 542	1,5-Diphenylcarbozide ^{1,2}	50 mm \square 16 mm \emptyset
COD LR (ISO 15705:2002) ^{b)}	0 - 150 mg/l	430	430	430	430	-	-	420	Dichromate / H ₂ SO ₄ ^{1,2}	16 mm \emptyset
COD MR (ISO 15705:2002) ^{b)}	0 - 1500 mg/l	610	610	610	610	-	-	620	Dichromate / H ₂ SO ₄ ^{1,2}	16 mm \emptyset
COD HR ^{b)}	0 - 15000 mg/l	610	610	610	610	-	-	620	Dichromate / H ₂ SO ₄ ^{1,2}	16 mm \emptyset
Copper ^{a)}	0.05 - 5 mg/l 0.05 - 1 mg/l 0.3 - 5 mg/l 0.5 - 5 mg/l	560 - 530 -	560 - - -	560 - - -	560 - - -	560 - - -	560 - - -	- 559 - 559	Biquinoline ⁴	24 mm \emptyset 50 mm \emptyset 24 mm \emptyset 24 mm \emptyset

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		MD 100	MD 200	MD 600 & MD 610	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect		
Copper ^{a)}	0.05 - 4 mg/l	-	-	560	-	-	-	-	Bicinchoninate	24 mm \emptyset
Copper, free VARIO	0.05 - 5 mg/l	560	-	560	560	560	-	560	Bicinchoninate	24 mm \emptyset
Cyanide	0.01 - 0.5 mg/l 0.005 - 0.2 mg/l	-	-	580	580	-	-	585 585	Pyridine-barbituric acid ¹	24 mm \emptyset 50 mm \square
Cyanuric acid	0 - 160 mg/l	530	530	530	530	530	530	530	Melamine	24 mm \emptyset
DEHA	20 - 500 μ g/l	-	-	560	560	-	-	562	PPST ³	24 mm \emptyset
DEHA VARIO	20 - 500 μ g/l	560	-	560	560	-	-	562	PPST ³	24 mm \emptyset
Fluoride	0.05 - 2 mg/l 0.05 - 1.5 mg/l	580 -	- -	580 -	580 -	- -	- -	- 580	SPADNS ²	24 mm \emptyset
Formaldehyde	1 - 5 mg/l 0.02 - 1 mg/l	- -	- -	- -	- -	- -	- -	585 585	H ₂ SO ₄ / Chromotropic acid	10 mm \square 50 mm \square
Formaldehyde	0.1 - 5 mg/l	-	-	-	-	-	-	575	H ₂ SO ₄ / Chromotropic acid	16 mm \emptyset
Hardness, calcium	50 - 900 mg/l	-	-	560	560	-	-	-	Murexide ⁴	24 mm \emptyset
Hardness, calcium	0 - 500 mg/l	560	560	560	560	560	560	-	Murexide ⁴	24 mm \emptyset
Hardness, total	2 - 50 mg/l 20 - 500 mg/l ^{b)}	560 560	- -	560 560	560 560	560 560	- -	571 571	Metallphthalein ³	24 mm \emptyset
Hazen (Pt-Co-units ; APHA)	0 - 500 mg/l 0 - 500 mg/l	430 -	- -	430 -	430 -	- -	- -	- 455	Direct reading ^{1,2}	24 mm \emptyset 50 mm \square
Hydrazine	0.05 - 0.5 mg/l	430	-	430	430	-	-	455	Dimethylamino- benzaldehyde ³	24 mm \emptyset

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		MD 100	MD 200	MD 600 & MD 610	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect			
Hydrazine	0.01 - 0.6 mg/l 0.005 - 0.6 mg/l	-	-	430	430	-	-	-	455	Dimethylamino-benzaldehyde ³	24 mm \emptyset
Hydrazine ¹⁾	0.01 - 0.7 mg/l	-	-	430	430	-	-	-	-	PDMAB	24 mm \emptyset
Hydrogen peroxide	0.03 - 3 mg/l 0.01 - 0.5 mg/l 0.03 - 1.5 mg/l	-	-	530	530	530	-	-	510 510	DPD/Catalyst ⁵	24 mm \emptyset 50 mm \square 24 mm \emptyset
Hydrogen peroxide	1 - 50 mg/l 40 - 500 mg/l ¹⁾	-	430 530	430 530	430 530	- 530	-	-	-	Peroxotitanium acid	24 mm \emptyset
Iodine	0.05 - 3.6 mg/l	-	-	530	530	530	-	-	510	DPD ⁵	24 mm \emptyset
Iron (II, III) soluble	0.02 - 1 mg/l 0.01 - 0.5 mg/l 0.1 - 1 mg/l	560 -	560 -	560 -	560 -	560 -	560 -	-	562 562	PPST ³	24 mm \emptyset 50 mm \square 10 mm \square
Iron VARIO (II, III) soluble	0.02 - 3 mg/l 0.1 - 3 mg/l	530 -	-	530 -	530 -	-	-	-	510	1,10-Phenanthroline ²	24 mm \emptyset
Iron VARIO, total ⁹⁾	0.02 - 1.8 mg/l 0.1 - 1.8 mg/l	580 -	-	580 -	580 -	-	-	-	590	TPTZ ⁹⁾	24 mm \emptyset
Iron LR	0.03 - 2.0 mg/l 0.03 - 2.0 mg/l	560 530	-	560	-	-	-	-	-	Ferrozine / Thioglycolate	24 mm \emptyset
Iron LR 2	0.03 - 2.0 mg/l	-	-	560	-	-	-	-	-	Ferrozine / Thioglycolate	24 mm \emptyset
Iron HR	0.1 - 10 mg/l	-	-	530	-	-	-	-	-	Thioglycolate	24 mm \emptyset
Lead (Pb²⁺)	0.1 - 5 mg/l	-	-	-	-	-	-	-	520	4-(2-Pyridylazo)-resorcine	10 mm \square
Lead (Pb²⁺)	0.1 - 5 mg/l	-	-	-	-	-	-	-	515	4-(2-Pyridylazo)-resorcine	16 mm \emptyset

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		MD 100	MD 200	MD 600 & MD 610	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect		
Manganese	0.2 - 4 mg/l	530	-	530	530	-	-	450	Formaldehyde	24 mm \emptyset
Manganese VARIO LR	0.01 - 0.7 mg/l	560	-	560	560	-	-	558	PAN	24 mm \emptyset
Manganese VARIO HR	0.1 - 18 mg/l	530	-	530	530	-	-	525	Periodate oxidation ²	24 mm \emptyset
Manganese	0.05 - 5 mg/l	-	-	430	-	-	-	-	Formaldehyde	24 mm \emptyset
Molybdate / Molybdenum	1 - 50 mg/l 1 - 30 mg/l 0.6 - 30 mg/l	- - 430	- - -	430 - -	430 - -	- - -	- - -	- 366 -	Thioglycolate ⁴	24 mm \emptyset
Molybdate / Molybdenum VARIO LR	0.5 - 5 mg/l 0.03 - 3 mg/l	- 610	- -	610 -	610 -	- -	- -	610 -	Mercaptoacetic acid	24 mm \emptyset
Molybdate / Molybdenum VARIO HR	0.5 - 66 mg/l 0.3 - 40 mg/l	- 430	- -	430 -	430 -	- -	- -	420 -	Mercaptoacetic acid	24 mm \emptyset
Molybdate / Molybdenum HR	1 - 100 mg/l 0.6 - 60 mg/l	- 430	- -	430 -	- -	- -	- -	- -	Thioglycolate ⁴	24 mm \emptyset
Nickel	0.02 - 1 mg/l 0.2 - 7 mg/l	- -	- -	- -	- -	- -	- -	443 443	Dimethylglyoxime ^{2,3}	50 mm \square 24 mm \emptyset
Nickel	0.1 - 10 mg/l	-	-	560	560	-	-	-	Nioxime	24 mm \emptyset

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		MD 100	MD 200	MD 600 & MD 610	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect		
Nitrate	0.08 - 1 mg/l	-	-	530	-	-	-	-	Zinc reduction / NED	24 mm \emptyset
Nitrate VARIO	1 - 30 mg/l	-	-	430	430	-	-	410	Chromotropic acid	16 mm \emptyset
Nitrate	0.5 - 14 mg/l	-	-	-	-	-	-	340	2,6-Dimethylphenole ³	16 mm \emptyset
Nitrite	0.01 - 0.5 mg/l	-	-	560	560	-	-	545	N-(1-Naphthyl)-ethylenediamine ^{2,3}	24 mm \emptyset
Nitrite	0.03 - 0.6 mg/l 0.3 - 3 mg/l	-	-	-	-	-	-	545 545	Sulfanilic/Naphthylamine ¹	16 mm \emptyset
Nitrite LR VARIO	0.01 - 0.3 mg/l	-	-	530	530	-	-	507	Diazotation	24 mm \emptyset
Nitrogen-total ^{b)}	0.5 - 14 mg/l 5 - 140 mg/l ¹⁾	-	-	-	-	-	-	340	2,6-Dimethylphenole 2,3	16 mm \emptyset
Nitrogen VARIO, total LR ^{b)}	0.5 - 25 mg/l	-	-	430	430	-	-	410	Persulphate-digestion method	16 mm \emptyset
Nitrogen VARIO, total HR ^{b)}	5 - 150 mg/l	-	-	430	430	-	-	410	Persulphate-digestion method	16 mm \emptyset
Oxygen, activ	0.1 - 10 mg/l	-	-	530	530	530	-	-	DPD	
Oxygen, dissolved ^{c)}	10 - 800 μ g/l	530	-	530	530	-	-	-	Rhodazine D TM	

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		MD 100	MD 200	MD 600 & MD 610	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect		
Ozone	0.02 - 1 mg/l	-	-	-	-	-	-	510	DPD/Glycine ⁵	24 mm \emptyset 50 mm \square 24 mm \emptyset
	0.02 - 0.5 mg/l	-	-	-	-	-	-	510		
	0.02 - 2 mg/l	530	-	530	530	530	530	-		
Phenols	0.1 - 5 mg/l	-	-	-	-	-	-	507	4-Aminoantipyrine ¹	24 mm \emptyset
PHMB (Biguanide)	2 - 60 mg/l	-	-	560	560	560	-	-	Buffer/Indicator	24 mm \emptyset
Phosphate-total LR ^{b)}	0.07 - 3 mg/l	-	-	-	-	-	-	690	Phosphomolybdic acid/ Ascorbic acid ²	16 mm \emptyset
	0.2 - 10 mg/l	-	-	-	-	-	-	690		
Phosphate-total HR ^{b)}	1.5 - 20 mg/l	-	-	-	-	-	-	690	Phosphomolybdic acid/ Ascorbic acid ²	16 mm \emptyset
	5 - 60 mg/l	-	-	-	-	-	-	690		
Phosphate LR , ortho	0.05 - 4 mg/l	660	-	660	660	610	610	710	Phosphomolybdic acid/ Ascorbic acid ²	24 mm \emptyset
Phosphate HR , ortho	1 - 80 mg/l	-	-	430	430	-	-	470	Vanadomolybdate ²	24 mm \emptyset
Phosphate VARIO ortho	0.06 - 2.5 mg/l	660	-	660	660	-	-	890	Phosphomolybdenum blue/ Ascorbic acid ²	24 mm \emptyset
Phosphate VARIO ortho	0.06 - 5 mg/l	-	-	660	660	-	-	890	Phosphomolybdenum blue/ Ascorbic acid ²	16 mm \emptyset
Phosphate-ortho	3 - 60 mg/l	-	-	-	-	-	-	438	Vanadomolybdate ²	16 mm \emptyset
Phosphate VARIO ^{b)} acid hydrolyzable and total	acid hydrolyzable: 0.02 - 1.6 mg/l	-	-	660	660	-	-	890	Acid digestion Phosphomolybdenum blue/ Ascorbic acid ²	16 mm \emptyset
	total: 0.02 - 1.1 mg/l 0.06 - 3.5 mg/l	-	-	-	-	-	-	-		

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		MD 100	MD 200	MD 600 & MD 610	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect		
Phosphate VARIO total ^{b)}	0.02 - 1.1 mg/l	-	-	660	660	-	-	890	Acid-/ Persulphate digestion Ascorbic acid ²	16 mm \emptyset
	0.06 - 3.5 mg/l									16 mm \emptyset
Phosphate, ortho ^{c)}	5 - 40 mg/l	-	-	430	430	-	-	-	Vanadomolybdate ²	
Phosphate, ortho ^{c)}	0.05 - 5 mg/l	-	-	660	660	-	-	-	Stannous chloride ²	
Phosphate LR	0.1 - 10 mg/l	-	-	660	-	-	-	-	Phosphomolybdic acid/ Ascorbic acid ²	24 mm \emptyset
Phosphate HR	5 - 80 mg/l	430	-	430	-	-	-	-	Vanadomolybdate ²	24 mm \emptyset
Phosphonate VARIO	0.02 - 125 mg/l	-	-	660	660	-	-	660	Persulfate UV-Oxidation	24 mm \emptyset
pH value	5.2 - 6.8	-	-	560	560	560	-	-	Bromcresol purple ⁵	24 mm \emptyset
pH value	6.5 - 8.4	560	560	560	560	560	560	558	Phenol red ⁵	24 mm \emptyset
pH value	6.5 - 8.4	560	560	560	560	560	-	558	Phenol red ⁵	24 mm \emptyset
pH value	8.0 - 9.6	-	-	560	560	560	-	-	Thymol blue ⁵	24 mm \emptyset
Polyacrylates	1 - 30 mg/l	530	-	660	-	-	-	-	Turbidity	24 mm \emptyset

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		MD 100	MD 200	MD 600 & MD 610	MultiDirect	PM 620 & PM 630	PM 600	SpectroDirect			
Potassium	0.7 - 12 mg/l 1 - 10 mg/l	-	-	430	430	-	-	-	730	Tetraphenylborate-Turbidity ⁴	24 mm \emptyset 24 mm \emptyset
Silica	0.05 - 4 mg/l 0.05 - 3 mg/l	660	-	660	660	-	-	-	820	Silicomolybdate ^{2,3}	24 mm \emptyset
Silica VARIO LR	0.1 - 1.6 mg/l	660	-	660	660	-	-	-	815	Heteropolyblue ²	24 mm \emptyset
Silica VARIO HR	1 - 90 mg/l 1 - 100 mg/l	430	-	430	430	-	-	-	452	Silicomolybdate ^{2,3}	24 mm \emptyset 24 mm \emptyset
Silica	0.1 - 8 mg/l	-	-	430	-	-	-	-	-	Heteropolyblue ²	24 mm \emptyset
Sodiumhypochlorite	0.2 - 16 %	-	-	530	530	530	530	-	-	Potassium iodide ⁵	24 mm \emptyset
Spectral Absorption-coefficient	0 - 50 m ⁻¹	-	-	-	-	-	-	-	436 525 620	Direct reading ¹ ISO 7887:1994	50 mm \square
Sulphate VARIO	5 - 100 mg/l 2 - 100 mg/l	530	-	530	530	530	-	-	450	Bariumsulphate Turbidity ²	24 mm \emptyset
Sulphate	5 - 100 mg/l	-	-	610	610	610	-	-	-	Bariumsulphate Turbidity ²	24 mm \emptyset

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Sulphide	0.04 - 0.5 mg/l	-	-	660	660	-	-	668	DPD/Catalyst ^{3,4}	24 mm \emptyset
Sulphite	0.1 - 5 mg/l	-	-	430	430	-	-	-	DTNB	24 mm \emptyset
	0.1 - 10 mg/l	-	-	-	-	-	-	405		10 mm \emptyset
	0.05 - 4 mg/l	-	-	-	-	-	-	405		24 mm \emptyset
Surfactants (anionic)	0.05 - 2 mg/l	-	-	-	-	-	-	653	Methylene blue ¹	16 mm \emptyset
Suspended solids	5 - 750 mg/l	660	-	660	660	-	-	-	Turbidity/Attenuated Radiation	24 mm \emptyset
		-	-	-	-	-	-	660		50 mm \square
TOC^{b)}	50 - 800 mg/l	-	-	-	-	-	-	596	H ₂ SO ₄ / Indicator	16 mm \emptyset
Triazoles (UV lamp requested)	1 - 16 mg/l	430	-	430	-	-	-	-	Catalyzed UV Digestion	24 mm \emptyset
Turbidity	5 - 500	-	-	-	-	-	-	860	Attenuated Radiation Method	50 mm \square
	0 - 1000	-	-	530	530	-	-	-		Attenuated Radiation Method
Urea	0.1 - 2.5 mg/l	610	610	610	610	610	-	-	Urease / Indophenol	24 mm \emptyset
	0.2 - 5 mg/l ^{b)}	610	610	-	-	-	-	-		
	0.1 - 2 mg/l	-	-	-	-	-	-	676		
Zinc	0.02 - 1 mg/l	-	-	610	610	-	-	-	Zincon ³ /EDTA	24 mm \emptyset
	0.02 - 0.5 mg/l	-	-	-	-	-	-	616		
Zinc	0.1 - 2.5 mg/l	-	-	610	-	-	-	-	Zincon ³ /EDTA	24 mm \emptyset

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

For other reagent quantities please see our current price list.

Legend

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®