

Parameter, Ranges and Reagents MultiDirect Photometer

MultiDirect

Parameter, Ranges, Reagents

Test	$\lambda^a)$ / nm	Method	Range	Display
Alkalinity-m (total)	610	Acid/Indicator ^{1,2}	5 - 200 mg/l	CaCO ₃
Alkalinity-p	560	Acid/Indicator ^{1,2}	5 - 500 mg/l	CaCO ₃
Aluminium VARIO	530	Eriochrome cyanine R ²	0.01 - 0.25 mg/l	Al
Aluminium	530	Eriochrome cyanine R ²	0.05 - 0.3 mg/l	Al
Ammonia	610	Indophenole blue ^{2,3}	0.02 - 1 mg/l	N
Ammonia VARIO	660	Salicylate ²	0.01 - 0.8 mg/l	N
Ammonia VARIO LR ^{d)}	660	Salicylate ^{1,2}	0.02 - 2.5 mg/l	N
Ammonia VARIO HR ^{d)}	660	Salicylate ^{1,2}	1 - 50 mg/l	N
Boron	430	Azomethine ³	0.1 - 2 mg/l	B
Bromine	530	DPD ⁵	0.05 - 13 mg/l	Br
Chloride	530	Silver nitrate/turbidity	0.5 - 25 mg/l	Cl

MSDS (Material Safety Data Sheets): www.tintometer.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®



Reagent	Form of reagent/Quantity	Order-No.
ALKA-M-PHOTOMETER	Tablet / 100	51 32 10
ALKA-P-PHOTOMETER	Tablet / 100	51 32 30
VARIO Aluminum ECR/F20 VARIO Aluminum Hexamine/F20 VARIO Aluminum Masking Reagt.	Powder Pack / 100 Powder Pack / 100 Liquid reagent / 25 ml Set	53 50 00
ALUMINIUM No. 1	Tablet / 100	51 54 60
ALUMINIUM No. 2	Tablet / 100	51 54 70
Combi pack [#]	each 100	51 76 01
ALUMINIUM No.1 / No.2	each 250	51 76 02
AMMONIA No. 1	Tablet / 100	51 25 80
AMMONIA No. 2	Tablet / 100	51 25 90
Combi pack [#]	each 100	51 76 11
AMMONIA No.1 / No.2	each 250	51 76 12
VARIO Ammonia Salicylate F10 VARIO Ammonia Cyanurate F10	Powder Pack / 100 Powder Pack / 100 Set	53 55 00
VARIO Ammonia Salicylate F5 VARIO Ammonia Cyanurate F5 VARIO Am Diluent Reagent LR VARIO Deionised Water (for Zero)	Powder Pack / 50 Powder Pack / 50 Reaction tube / 20 Bottle, 100 ml Set	53 56 00
VARIO Ammonia Salicylate F5 VARIO Ammonia Cyanurate F5 VARIO Am Diluent Reagent HR VARIO Deionised Water (for Zero)	Powder Pack / 100 Powder Pack / 100 Reaction tube / 25 Bottle, 100 ml Set	53 56 50
BORON No. 1	Tablet / 100	51 57 90
BORON No. 2	Tablet / 100	51 58 00
Combi pack [#]	each 100	51 76 81
BORON No.1 / No.2	each 200	51 76 82
DPD No. 1	Tablet / 100	51 10 60
DPD No. 1 HIGH CALCIUM ^{e)}	Tablet / 100	51 57 40
CHLORIDE T1	Tablet / 100	51 59 10
CHLORIDE T2	Tablet / 100	51 59 20

^{a)} Wavelength

^{b)} Determination of free, combined and total

^{c)} Reactor is necessary

^{d)} Tube test

^{e)} alternative reagent, used instead of DPD No. 1 in case of turbidity in the water sample caused by high concentration of calcium and/or high conductivity

^{f)} additionally required for determination of chlorine dioxide / ozone in the presence of chlorine

^{g)} Adapter für Vacu-vials[®] erforderlich (Bestell-Nr.: 19 20 75)

[#] including stirring rod, 10 cm

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Test	$\lambda^a)$ / nm	Method	Range	Display
Chlorine ^{b)}	530	DPD ^{1,2}	0.01 - 6 mg/l	Cl ₂
Chlorine ^{b)}	530	DPD ^{1,2}	0.02 - 4 mg/l	Cl ₂
Chlorine VARIO ^{b)}	530	DPD ^{1,2}	0.02 - 2 mg/l	Cl ₂
Chlorine HR (PI)	530	KI / Acid ⁵	5 - 200 mg/l	Cl ₂
Chlorine dioxide	530	DPD ^{1,2}	0.05 - 11 mg/l	ClO ₂
COD LR (ISO 15705:2003-01) ^{c,d)}	430	Dichromate / H ₂ SO ₄ ¹	0 - 150 mg/l	O ₂
COD MR (ISO 15705:2003-01) ^{c,d)}	610	Dichromate / H ₂ SO ₄ ¹	0 - 1500 mg/l	O ₂
COD HR ^{c,d)}	610	Dichromate / H ₂ SO ₄ ¹	0 - 15000 mg/l	O ₂
Copper ^{b)}	560	Biquinoline ⁴	0.05 - 5 mg/l	Cu
Copper, free VARIO	560	Bicinchoninate	0.05 - 5 mg/l	Cu
Cyanide	580	Pyridin barbituric acid ¹	0.01 - 0.5 mg/l	CN
Cyanuric acid	530	Melamine	2 - 160 mg/l	Cys
DEHA	560	PPST ³	20 - 500 µg/l	DEHA

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⁵ Colorimetric Chemical Analytical Methods, 9th Edition, Lovibond®

Reagent	Form of reagent/Quantity	Order-No.
DPD No. 1	Tablet / 100	51 10 60
DPD No. 3	Tablet / 100	51 10 80
Combi pack [#]	each 100	51 77 11
DPD No.1 / No.3	each 250	51 77 12
DPD No. 1 HIGH CALCIUM ^{e)}	Tablet / 100	51 57 40
DPD 1 Buffer solution	Liquid reagent / 15 ml	47 10 10
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
VARIO Chlorine FREE-DPD/F10	Powder Pack / 100	53 01 00
VARIO Chlorine TOTAL-DPD/F10	Powder Pack / 100	53 01 20
ACIDIFYING GP	Tablet / 100	51 54 80
CHLORINE HR (PI)	Tablet / 100	51 30 00
Combi pack [#]	each 100	51 77 21
CHLORINE HR (PI)/ACIDIFYING GP	each 250	51 77 22
DPD No. 1	Tablet / 100	51 10 60
DPD No. 3	Tablet / 100	51 10 80
Combi pack [#]	each 100	51 77 11
DPD No.1 / No.3	each 250	51 77 12
GLYCINE ^{f)}	Tablet / 100	51 21 70
Combi pack [#]	each 100	51 77 31
DPD No.1 / GLYCINE	each 250	51 77 32
Reaction tube 0-150 mg/l	Tube test / 25	2 42 07 20
Reaction tube 0-1500 mg/l	Tube test / 25	2 42 07 21
Reaction tube 0-15000 mg/l	Tube test / 25	2 42 07 22
COPPER No. 1	Tablet / 100	51 35 50
COPPER No. 2	Tablet / 100	51 35 60
Combi pack [#]	each 100	51 76 91
COPPER No.1 / No.2	each 250	51 76 92
Vario Cu 1 F10	Powder Pack / 100	53 03 00
RT (Cyanide-11 / Cyanide-12 / Cyanide-13)	Reagent test (powder, liquid reagent) / 130 tests	2 41 88 75
CYANURIC ACID	Tablet / 100	51 13 20
DEHA solution	Liquid reagent / 100 ml	46 11 81
DEHA	Tablet / 100	51 32 20



- ^{a)} Wavelength
^{b)} Determination of free, combined and total
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^{d)} Tube test
^{e)} alternative reagent, used instead of DPD No. 1 in case of turbidity in the water sample caused by high concentration of calcium and/or high conductivity
^{f)} additionally required for determination of chlorine dioxide / ozone in the presence of chlorine
^{g)} Adapter für Vacu-vials® erforderlich (Bestell-Nr.: 19 20 75)
[#] including stirring rod, 10 cm

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Test	$\lambda^a)$ / nm	Method	Range	Display
DEHA VARIO	560	PPST ³	20 - 500 µg/l	DEHA
Fluoride	580	SPADNS ²	0.05 - 2 mg/l	F
Hardness, Calcium	560	Murexide ⁴	50 - 900 mg/l	CaCO ₃
Hardness, total	560	Metallphthalein ³	2 - 50 mg/l	CaCO ₃
Hardness, total HR	560	Metallphthalein ³	20 - 500 mg/l	CaCO ₃
Hydrazine	430	Dimethylaminobenzaldehyde ³	0.05 - 0.5 mg/l	N ₂ H ₄
Hydrazine	430	Dimethylaminobenzaldehyde ³	0.01 - 0.6 mg/l	N ₂ H ₄
Hydrazine ⁹⁾	430	PDMAB	0.01 - 0.7 mg/l	N ₂ H ₄
Hydrogen peroxide	530	DPD/Catalyst ⁵	0.03 - 3 mg/l	H ₂ O ₂
Iodine	530	DPD	0.05 - 3.6 mg/l	I
Iron (Fe ²⁺ , Fe ³⁺) soluble	560	PPST ³	0.02 - 1 mg/l	Fe
Iron VARIO (Fe ²⁺ , Fe ³⁺) soluble	530	1,10-Phenanthroline ²	0.02 - 3 mg/l	Fe
Iron VARIO, total	580	TPTZ	0.02 - 1.8 mg/l	Fe
Manganese LR	530	Formaldoxim	0.2 - 4 mg/l	Mn
Manganese VARIO LR	560	PAN	0.01 - 0.7 mg/l	Mn
Manganese VARIO HR	525	Periodatoxidation ²	0.1 - 18 mg/l	Mn

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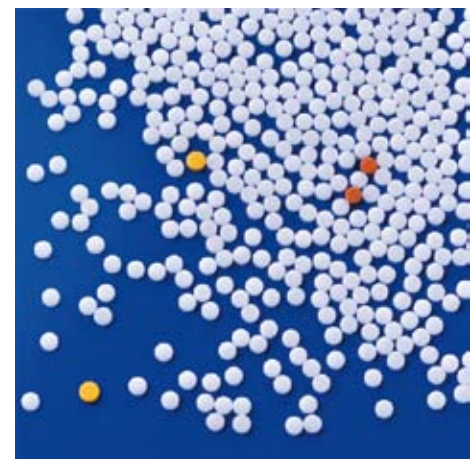
³ Photometrische Analyseverfahren, Schwedt, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart; 1989

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Reagent	Form of reagent/Quantity	Order-No.
OXYSCAV 1 RGT VARIO DEHA 2 RGT	Powder Pack / 100 Solution / 100 ml Set	53 60 00
SPADNS-reagent Fluoride standard Reagent solution and standard required	Liquid reagent / 250 ml Solution / 30 ml	46 74 81 20 56 30
CALCHECK	Tablet / 100	51 56 50
HARDCHECK P	Tablet / 100	51 56 60
HARDCHECK P	Tablet / 100	51 56 60
Hydrazine test powder Spoon	Powder / 30 g	46 29 10 38 49 30
VARIO Hydra 2 Rgt Solution	Solution / 100 ml	53 12 00
Vacu-vial®	Test Kit / 30	38 04 70
HYDROGENPEROXIDE LR	Tablet / 100	51 23 80
DPD No. 1	Tablet / 100	51 10 60
IRON LR IRON (II) LR	Tablet / 100 Tablet / 100	51 53 70 51 54 20
VARIO Ferro F10	Powder Pack / 100	53 05 60
VARIO TPTZ F10	Powder Pack / 100	53 05 50
MANGANESE LR 1 MANGANESE LR 2 Combi pack# MANGANESE LR 1 / LR 2	Tablet / 100 Tablet / 100 each 100 each 250	51 60 80 51 60 90 51 76 21 51 76 22
VARIO Ascorbic Acid VARIO Alkaline-Cyanide VARIO PAN Indicator	Powder Pack / 100 Liquid reagent / 50 ml Liquid reagent / 50 ml Set	53 50 90
VARIO Manganese Citrate Buffer F10 VARIO Sodiumperiodate F10	Powder Pack / 100 Powder Pack / 100 Set	53 51 00



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Molybdate	430	Thioglycolate	1 - 50 mg/l	MoO ₄
Molybdate VARIO	430	Mercaptoacetic acid	0.5 - 66 mg/l	MoO ₄
Nitrate VARIO^{d)}	430	Chromotropic acid	1 - 30 mg/l N	N
Nitrite	560	N(1-Naphthyl)ethylenediamine ^{2,3}	0.01 - 0.5 mg/l	N
Nitrite LR VARIO	530	Diazotization	0.01 - 0.3 mg/l	N
Nitrogen VARIO total LR^{c,d)}	430	Persulphate digestion method	0.5 - 25 mg/l	N
Nitrogen VARIO total HR^{c,d)}	430	Persulphate digestion method	5 - 150 mg/l	N
Oxygen, active	530	DPD	0.1 - 10 mg/l	O ₂
Oxygen, dissolved	530	Rhodazine D	10 - 800 µg/l	O ₂
Ozone	530	DPD/Glycine ⁵	0.02 - 1 mg/l	O ₃

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Reagent	Form of reagent/Quantity	Order-No.
MOLYBDATE No.1 HR	Tablet / 100	51 30 60
MOLYBDATE No.2 HR	Tablet / 100	51 30 70
Combi pack [#]	each 100	51 76 31
MOLYBDATE No.1 HR / No.2 HR	each 250	51 76 32
VARIO Molybdenum HR1 F10	Powder Pack / 100	
VARIO Molybdenum HR2 F10	Powder Pack / 100	
VARIO Molybdenum HR3 F10	Powder Pack / 100	
	Set	53 53 00
VARIO Nitrate Chromotropic	Powder Pack / 100	
VARIO Nitra X Reagent tube	Reaction tube / 50	
VARIO Deionised water (for Zero)	Bottle 100 ml	
	Set	53 55 80
NITRITE LR	Tablet / 100	51 23 10
VARIO Nitri 3	Powder Pack / 100	53 09 80
VARIO TN HYDROX. LR vials	Digestion vials / 50	
VARIO PERSULFATE reagent	Powder / 15 g	
VARIO TN reagent A	Powder Pack / 50	
VARIO TN reagent B	Powder Pack / 50	
VARIO TN ACID LR/HR vials	Reaction vials / 50	
VARIO Deionised water (for Zero)	Bottle 100 ml	
	Set	53 55 50
VARIO TN HYDROX. HR vials	Digestion vials / 50	
VARIO PERSULFATE reagent	Powder / 15 g	
VARIO TN reagent A	Powder Pack / 50	
VARIO TN reagent B	Powder Pack / 50	
VARIO TN ACID LR/HR vials	Reaction vials / 50	
VARIO Deionised water (for Zero)	Bottle 100 ml	
	Set	53 55 60
DPD No. 4	Tablet / 100	51 12 20
Vacu-vial [®]	Liquid reagent / 30	38 02 90
DPD No. 1	Tablet / 100	51 10 60
DPD No. 3	Tablet / 100	51 10 80
Combi pack [#]	each 100	51 77 11
DPD No.1 / No.3	each 250	51 77 12
GLYCINE ^{†)}	Tablet / 100	51 21 70
Combi pack [#]	each 100	51 77 31
DPD No.1 / GLYCINE	each 250	51 77 32



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Test	$\lambda^a)$ / nm	Method	Range	Display
PHMB (Biguanide)	560	Buffer/Indicator	2 - 60 mg/l	PHMB
Phosphate LR , ortho	660	Phosphormolybdenic blue/ Ascorbic acid ²	0.05 - 4 mg/l	PO ₄
Phosphate HR , ortho	430	Vanadamolybdate ²	5 - 80 mg/l	PO ₄
Phosphate VARIO ortho	660	Ascorbic acid ²	0.06 - 2.5 mg/l	PO ₄
Phosphate VARIO ortho ^{d)}	660	Ascorbic acid ²	0.06 - 5 mg/l	PO ₄
Phosphate VARIO ^{c,d)} , acid hydrolyzable and total	660	Acid digestion/Persulphate Ascorbic acid ²	acid hydrolyzable: 0.02 - 1.6 mg/l P Δ 0.06 - 5 mg/l PO ₄ total: 0.02 - 1.1 mg/l P Δ 0.06 - 3.5 mg/l PO ₄	P P P P
Phosphate VARIO total ^{c,d)}	660	Acid persulphate digestion Ascorbic acid ²	0.02 - 1.1 mg/l P Δ 0.06 - 3.5 mg/l PO ₄	P P
Phosphate , 1 C	430	Vando-molybdate ²	5 - 40 mg/l	PO ₄
Phosphate , 2 C	660	Zinnchloride ²	0.05 - 5 mg/l	PO ₄
pH-Value	560	Bromocresol purple ⁵	5.2 - 6.8	pH
pH-Value	560	Phenol red ⁵	6.5 - 8.4	pH
pH-Value	560	Phenol red ⁵	6.5 - 8.4	pH
pH-Value	560	Thymol blue ⁵	8.0 - 9.6	pH
Potassium	730	Tetraphenylborate, Turbidity ⁴	0.7 - 12 mg/l	K

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Reagent	Form of reagent/Quantity	Order-No.
PHMB PHOTOMETER	Tablet / 100	51 61 00
PHOSPHATE LR No. 1	Tablet / 100	51 30 40
PHOSPHATE LR No. 2	Tablet / 100	51 30 50
Combi pack [#]	each 100	51 76 51
PHOSPHATE No.1 LR / No.2 LR	each 200	51 76 52
PHOSPHATE HR No. 1	Tablet / 100	51 58 10
PHOSPHATE HR No. 2	Tablet / 100	51 58 20
Combi pack [#]	each 100	51 76 61
PHOSPHATE No.1 HR / No.2 HR	each 200	51 76 62
VARIO PHOS3, 10 ml	Powder Pack / 100	53 15 50
Tubes	Dilution / 50	
VARIO Phosphate RGT, 10 ml	Powder Pack / 50	
VARIO Deionised water (for Zero)	Bottle 100 ml	
	Set	53 52 00
Tubes	Acid reagent / 50	
VARIO Phosphate RGT, 10 ml	Powder Pack / 50	
VARIO Deionised water (for Zero)	Bottle 100 ml	
1N NaOH	Bottle / 100 ml	
1,54N NaOH	Bottle / 100 ml	
VARIO POTASSIUM PERSULFATE	Powder Pack / 50	
	Set	53 52 50
Tubes	Acid reagent / 50	
VARIO Phosphate RGT, 10 ml	Powder Pack / 50	
VARIO Deionised water (for Zero)	Bottle 100 ml	
1,54N NaOH	Bottle / 100 ml	
VARIO POTASSIUM PERSULFATE	Powder Pack / 50	
	Set	53 52 10
Vacu-vial [®]	Liquid reagent / 30	
Vacu-vial [®]	Liquid reagent / 30	
BROMOCRESOLPURPLE / PHOTOMETER	Tablet / 100	51 57 00
PHENOL RED / PHOTOMETER	Tablet / 100	51 17 70
PHENOL RED Solution	Liquid reagent / 15 ml	47 10 40
THYMOL BLUE / PHOTOMETER	Tablet / 100	51 57 10
POTASSIUM T	Tablet / 100	51 56 70

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[#] including stirring rod, 10 cm

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Test	$\lambda^a)$ / nm	Method	Range	Display
Silica	660	Silicomolybdate ^{1,2}	0.05 - 4 mg/l	SiO ₂
Silica VARIO LR	660	Heteropolyblue ²	0.1 - 1.6 mg/l	SiO ₂
Silica VARIO HR	430	Silicomolybdate	1 - 90 mg/l	SiO ₂
Sodiumhypochlorite	530	Potassium iodide ⁵	2 - 18 %	NaOCl
Sulphate VARIO	530	Bariumsulphate-Turbidity ²	5 - 100 mg/l	SO ₄
Sulphate	660	Bariumsulphate-Turbidity ²	5 - 100 mg/l	SO ₄
Sulphide	660	DPD/Catalyst ^{3,4}	0.04 - 0.5 mg/l	S
Sulphite	430	DTNB	0.1 - 5 mg/l	SO ₃
Urea	610	Urease / Indophenol	0.1 - 3 mg/l	Urea
Zinc	610	Zincon ³ /EDTA	0.02 - 1 mg/l	Zn

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Reagent	Form of reagent/Quantity	Order-No.
SILICA No. 1	Tablet / 100	51 31 30
SILICA No.2	Tablet / 100	51 31 40
Combi pack [#]	each 100	51 76 71
SILICA No.1 / No.2	each 200	51 76 72
SILICA PR (in presence of phosphate)	Tablet / 100	51 31 50
VARIO Amino Acid F	Powder Pack / 100	
VARIO Citric Acid	Powder Pack / 100	
VARIO Molybdate 3 Reagent solution	Liquid reagent / 50 ml	
	Set	53 56 90
VARIO Silica HR Molybdate F10	Powder Pack / 100	
VARIO Silica HR Acid Rgt F10	Powder Pack / 100	
VARIO Silica HR Citric Acid F10	Powder Pack / 100	
	Set	53 57 00
ACIDIFYING GP	Tablette / 100	51 54 80
CHLORINE HR (PI)	Tablette / 100	51 30 00
Combi pack [#]	each 100	51 77 21
CHLORINE HR (PI)/ACIDIFYING GP	each 250	51 77 22
VARIO Sulpha 4 / F10	Powder Pack / 100	53 21 60
SULFATE T	Tablet / 100	51 54 50
SULFIDE No. 1	Tablet / 100	50 29 30
SULFIDE No. 2	Tablet / 100	50 29 40
SULFITE LR	Tablet / 100	51 80 20
UREA-Reagent 1	Liquid reagent / 15 ml	45 93 00
UREA-Reagent 2	Liquid reagent / 10 ml	45 94 00
AMMONIA No. 1	Tablet / 100	51 25 80
AMMONIA No. 2	Tablet / 100	51 25 90
Combi pack [#]	each 100	51 76 11
AMMONIA No.1 / No.2	each 250	51 76 12
COPPER/ZINC LR	Tablet / 100	51 26 20
EDTA (in case of zinc in presence of chlorine)	Tablet / 100	51 23 90
DECHLOR	Tablet / 100	51 23 50

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