

Reagents

Reagents

| Test | Range | Wave lengths λ / nm | | | | | | Method | Cuvette |
|--|---|-----------------------------|-------|--------|-------|-------|-------|--|-------------------|
| | | AL100 | AL250 | AL250+ | AL400 | AL450 | AL800 | | |
| Acid capacity K_{s4.3} | 0.1 - 4 mmol/l | - | - | 605 | 610 | 610 | 615 | Acid/Indicator ^{1,2} | 24 mm \emptyset |
| Alkalinity-m (total) | 5 - 200 mg/l | 610 | - | 605 | 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 | 535 | Eriochrome cyanine R ² | 24 mm \emptyset |
| Aluminium | 0.01 - 0.3 mg/l 0.05 - 0.3 mg/l | - | - | - | 530 | 530 | 535 | Eriochrome cyanine R ² | 24 mm \emptyset |
| | | - | 528 | - | - | - | - | | |
| Ammonia | 0.02 - 1 mg/l 0.2 - 10 mg/l ^b | 610 | 660 | - | 610 | 610 | 676 | Indophenole blue ^{2,3} | 24 mm \emptyset |
| | | - | 660 | - | - | - | - | | |
| 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 |
| Ammonia, free VARIO (Part of method monochloramine) | 0.01 - 0.5 mg/l | 660 | - | - | 660 | 660 | - | Indophenol | 24 mm \emptyset |
| Arsenic (III, IV) | 0.02 - 0.6 mg/l | - | - | - | - | - | 507 | Silver diethyldithiocarbamate ¹ | 20 mm \square |
| Biguanide (see PHMB) | | | | | | | | | |
| Boron | 0.1 - 2 mg/l | - | - | - | 430 | 430 | 450 | Azomethine ³ | 24 mm \emptyset |

Material safety data sheets: www.aqualytic.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®

| Display | Reagent | Form of reagent/Quantity | Order code |
|-------------------|--|--|--|
| | ALKA-M-PHOTOMETER | Tablet / 100 | 4513210 |
| CaCO ₃ | ALKA-M-PHOTOMETER | Tablet / 100 | 4513210 |
| CaCO ₃ | ALKA-P-PHOTOMETER | Tablet / 100 | 4513230 |
| Al | VARIO Aluminum ECR/F20 VARIO Aluminum Hexamine/F20 VARIO Aluminum ECR Masking Reagent | Powder Pack / 100 Powder Pack / 100 Liquid reagent / 25 ml Set | 535000 |
| Al | ALUMINIUM No. 1 ALUMINIUM No. 2 Combi pack# ALUMINIUM No.1 / No.2 Combi pack# ALUMINIUM No.1 / No.2 | Tablet / 100 Tablet / 100 each 100 each 250 | 4515460 4515470 4517601 4517602 |
| 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 / 100 Tests | 4512580 4512590 4517611 4517612 460170 |
| N | VARIO Ammonia Salicylate F10 VARIO Ammonia Cyanurate F10 | Powder Pack / 100 Powder Pack / 100 Set | 535500 |
| N | 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 / 50 Bottle, 100 ml Set (Tube test) | 535600 |
| N | VARIO Ammonia Salicylate F5 VARIO Ammonia Cyanurate F5 VARIO Am Diluent Reagent HR VARIO Deionised Water (for Zero) | Powder Pack / 50 Powder Pack / 50 Reaction tube / 50 Bottle, 100 ml Set (Tube test) | 535650 |
| N | VARIO Free Ammonia Reagent Solution VARIO Monochlor FRGT | Bottle 5 ml Powder Pack / 100 Set | 535800 |
| As | for chemicals see manual, reagents at specialized chemistry dealer | | |
| B | BORON No. 1 BORON No. 2 Combi pack# BORON No.1 / No.2 Combi pack# BORON No.1 / No.2 | Tablet / 100 Tablet / 100 each 100 each 200 | 4515790 4515800 4517681 4517682 |

^{a)} determination of free, combined and total

^{b)} Reactor is necessary for COD (150°C), TOC (120°C) and total -chromium, - phosphate, -nitrogen, (100°C)

^{c)} AL450: 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 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)} Reagent recovers most insoluble iron oxides without digestion

^{h)} additionally required for samples with hardness values above 300 mg/l CaCO₃

^{l)} high range by dilution

no BT blister tablets, including stirring rod

Reagents

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|--|--|-----------------------------|--------------------|--------------------|--------------------|--------------------|------------------------|--------------------------------------|---|
| | | AL100 | AL250 | AL250+ | AL400 | AL450 | AL800 | | |
| Bromine | 0.05 - 13 mg/l 0.02 - 13 mg/l 0.05 - 1 mg/l 0.1 - 3 mg/l 0.05 - 6.5 mg/l | 530 - | - - | - 528 | 530 - | 530 - | - 510 510 510 | DPD ⁵ | 24 mm \emptyset 24 mm \emptyset 50 mm \square 10 mm \square 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 ^{b)} | - - | 528 528 | - - | 530 - | 530 - | 450 - | Silver nitrate/turbidity | 24 mm \emptyset |
| Chloride | 5 - 60 mg/l | - | - | - | - | - | 455 | Iron (III)-thiocyanate ⁴ | 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 - - - | 528 - - - | 528 - - - | 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 | - | - | - | - | - | DPD ^{1,2} | 24 mm \emptyset |
| Chlorine ^{a)} | 0.02 - 4 mg/l 0.02 - 3 mg/l | 530 | 528 | 528 | 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 | 528 - | 528 - | 530 - | 530 - | 510 - | DPD ^{1,2} | 24 mm \emptyset 24 mm \emptyset multy view |
| Chlorine HR (KI) | 5 - 200 mg/l | 530 | 470 | 470 | 530 | 530 | 470 | KI / Acid ⁵ | 16 mm \emptyset |
| Chlorine dioxide | 0.05 - 11 mg/l 0.02 - 11 mg/l 0.05 - 1 mg/l 0.05 - 2.5 mg/l | - 530 - - | - - - - | - 528 - - | 530 - - - | 530 - - - | - 510 510 | DPD/Glycine ^{1,2} | 24 mm \emptyset 24 mm \emptyset 50 mm \square 24 mm \emptyset |
| Chlorine dioxide VARIO | 0.02 - 3.8 mg/l | 530 | - | - | - | - | - | DPD ^{1,2} | |
| Chromium ^{a) b)} | 0.005 - 0.5 mg/l 0.02 - 2 mg/l | - - | - - | - - | - - | - - | 542 542 | 1,5-Diphenylcarbozide ^{1,2} | 50 mm \square 16 mm \emptyset |

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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®

| Display | Reagent | Form of reagent/Quantity | Order code |
|------------------|--|--|--|
| Br | DPD No. 1 DPD No. 1 HIGH CALCIUM ^{e)} | Tablet / 100 Tablet / 100 | 4511060BT 4515740 |
| Cd | Spectroquant® 1.14834.0001 ^{d)} | Tube test / 25 | 420750 |
| Cl | CHLORIDE T1 CHLORIDE T2 Combi pack# CHLORIDE T1 / T2 Combi pack# CHLORIDE T1 / T2 | Tablet / 100 Tablet / 100 each 100 each 250 | 4515910 4515920 4517741 4517742 |
| Cl | Chlorid-51 / Chlorid-52 | Reagent test (Liquid reagent) approx. 50-75 Tests | 419031 |
| Cl ₂ | DPD No. 1 DPD No. 3 Combi pack# DPD No.1 / No.3 Combi pack# DPD No.1 / No.3 DPD No. 1 HIGH CALCIUM ^{e)} | Tablet / 100 Tablet / 100 each 100 each 250 Tablet / 100 | 4511060BT 4511080BT 4517711 4517712 4515740 |
| Cl ₂ | DPD No. 1 HR DPD No. 3 HR | Tablet / 100 Tablet / 100 | 4511500BT 4511590BT |
| Cl ₂ | DPD 1 Buffer solution DPD 1 Reagent solution DPD 3 Solution | Liquid reagent / 15 ml Liquid reagent / 15 ml Liquid reagent / 15 ml Set | 471010 471020 471030 471056 |
| Cl ₂ | VARIO Chlorine FREE-DPD/F10 VARIO Chlorine TOTAL-DPD/F10 | Powder Pack / 100 Powder Pack / 100 | 530100 530120 |
| Cl ₂ | ACIDIFYING GP CHLORINE HR (KI) Combi pack# CHLORINE HR (KI)/ACIDIFYING GP Combi pack# CHLORINE HR (KI)/ACIDIFYING GP | Tablet / 100 Tablet / 100 each 100 each 250 | 4515480 4513000 4517721 4517722 |
| ClO ₂ | DPD No. 1 DPD No. 3 Combi pack# DPD No.1 / No.3 Combi pack# DPD No.1 / No.3 GLYCINE ^{l)} Combi pack# DPD No.1 / GLYCINE Combi pack# DPD No.1 / GLYCINE DPD No.1 High Calcium ^{e)} | Tablet / 100 Tablet / 100 each 100 each 250 Tablet / 100 each 100 each 250 Tablet / 100 | 4511060BT 4511080BT 4517711 4517712 4512170 4517731 4517732 4515740 |
| ClO ₂ | VARIO Chlorine FREE-DPD/F10 | Powder Pack / 100 | 530100 |
| Cr | PERSULF. RTG FOR CR Chromium Hexavalent | Powder Pack / 100 Powder Pack / 100 | 537300 537310 |

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^{c)} AL450: 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 in case of turbidity in the water sample caused by high concentration of calcium and/or high conductivity

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^{g)} Reagent recovers most insoluble iron oxides without digestion

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^{l)} high range by dilution

no BT blister tablets, including stirring rod

Reagents

| Test | Range | Wave lengths λ / nm | | | | | | Method | Cuvette |
|--|---|-----------------------------|---------------|---------------|-----------------|-----------------|-----------------|--|---|
| | | AL100 | AL250 | AL250+ | AL400 | AL450 | AL800 | | |
| 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 | 605 | - | 610 | 610 | 620 | Dichromate / H ₂ SO ₄ ^{1,2} | 16 mm \emptyset |
| COD HR ^{b)} | 0 - 15000 mg/l | 610 | 605 | - | 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 0.5 - 5 mg/l | 560 - - | 528 - - | 528 - - | 560 - - | 560 - - | - 559 559 | Biquinoline ⁴ | 24 mm \emptyset 50 mm o 24 mm \emptyset |
| Copper free | 0.02 - 1 mg/l | - | 580 | - | - | - | - | Zincon ³ / EDTA | 24 mm \emptyset |
| Copper, frei VARIO | 0.05 - 5 mg/l | 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 | 2 - 160 mg/l ^{d)} | 530 | - | 528 | 530 | 530 | 530 | Melamine | 24 mm \emptyset |
| DEHA | 20 - 500 μ g/l | - | 528 | - | 560 | 560 | 562 | PPST ³ | 24 mm \emptyset |
| DEHA VARIO | 20 - 500 μ g/l | - | - | - | 560 | 560 | 562 | PPST ³ | 24 mm \emptyset |
| Fluoride | 0.05 - 2 mg/l 0.05 - 1.5 mg/l | 580 - | 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 | - | 528 | 560 | 560 | - | Murexid ⁴ | 24 mm \emptyset |
| Hardness, total | 2 - 50 mg/l 20 - 500 mg/l ^{d)} 50 - 500 mg/l ^{d)} | - - - | - - 528 | - - - | 560 560 - | 560 560 - | 571 571 - | Metallphthalein ³ | 24 mm \emptyset |

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| Display | Reagent | Form of reagent/Quantity | Order code |
|-------------------|--|--|--|
| O ₂ | Reaction tube 0-150 mg/l Reaction tube 0-150 mg/l, mercury free | Tube test / 25 Tube test / 25 | 420720 420710 |
| O ₂ | Reaction tube 0-1500 mg/l Reaction tube 0-1500 mg/l, mercury free | Tube test / 25 Tube test / 25 | 420721 420711 |
| O ₂ | Reaction tube 0-15000 mg/l Reaction tube 0-15000 mg/l, mercury free | Tube test / 25 Tube test / 25 | 420722 420712 |
| 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 | 4513550 4513560 4517691 4517692 |
| Cu | COPPER/ZINC LR EDTA DECHLOR (in case of high levels of residual chlorine) | Tablet / 100 Tablet / 100 Tablet / 100 | 4512620 4512390 4512350 |
| Cu | Vario Cu 1 F10 | Powder Pack / 100 | 530300 |
| CN | Cyanid-11 / Cyanid-12 / Cyanid-13 | Reagent test (Powder, Liquid reagent) / 200 Tests | 418875 |
| Cys | CYANURIC ACID | Tablet / 100 | 4511320BT |
| DEHA | DEHA Solution DEHA | Liquid reagent / 100 ml Tablet / 100 | 461181 4513220 |
| DEHA | VARIO OXYSCAV 1 RGT VARIO DEHA 2 RGT | Powder Pack / 200 Solution / 100 ml Set | 536000 |
| F | SPADNS Reagent Fluoride Standard Reagent solution and standard required | Liquid reagent / 250 ml Liquid reagent / 500 ml Solution / 30 ml | 4467481 4467482 205630 |
| HCHO | Spectroquant® 1.14678.0001 ^{d)} | Reagent test / ca. 50-75 Tests | 420751 |
| HCHO | Spectroquant® 1.14500.0001 ^{d)} | Tube test / 25 | 420752 |
| CaCO ₃ | CALCHECK | Tablet / 100 | 4515650 |
| CaCO ₃ | Combi pack# CALCIO H No.1 / No.2 Combi pack# CALCIO H No.1 / No.2 | each 100 each 250 | 4517761 4517762 |
| CaCO ₃ | HARDCHECK P | Tablet / 100 | 4515660 |

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| Test | Range | Wave lengths λ / nm | | | | | | Method | Cuvette |
|--|-----------------------------|-----------------------------|-------|--------|-------|-------|-------|---|---|
| | | AL100 | AL250 | AL250+ | AL400 | AL450 | AL800 | | |
| Hazen (Pt-Co-Einheiten ; APHA) | 0 - 500 mg/l | - | 470 | - | 430 | 430 | - | Direct reading ^{1,2} | 24 mm \emptyset 50 mm \square |
| | 0 - 500 mg/l | - | - | - | - | - | 455 | | |
| Hydrazine | 0.05 - 0.5 mg/l | - | 470 | - | 430 | 430 | 455 | Dimethylamino- benzaldehyde ³ | 24 mm \emptyset |
| Hydrazine | 0.01 - 0.6 mg/l | - | - | - | 430 | 430 | - | Dimethylamino- benzaldehyde ³ | 24 mm \emptyset |
| | 0.005 - 0.6 mg/l | - | - | - | - | - | 455 | | |
| Hydrazine ^{c)} | 0.01 - 0.7 mg/l | - | - | - | 430 | 430 | - | PDMAB | 24 mm \emptyset |
| Hydrogen peroxide | 0.03 - 3 mg/l | - | - | - | 530 | 530 | - | DPD/Catalyst ⁵ | 24 mm \emptyset 24 mm \emptyset 50 mm \emptyset 24 mm \emptyset |
| | 0.05 - 3 mg/l | - | 528 | - | - | - | - | | |
| | 0.01 - 0.5 mg/l | - | - | - | - | - | 510 | | |
| | 0.03 - 1.5 mg/l | - | - | - | - | - | 510 | | |
| Iodine | 0.05 - 3.6 mg/l | - | - | - | 530 | 530 | 510 | DPD ⁵ | 24 mm \emptyset |
| Iron (II, III) soluble | 0.02 - 1 mg/l | 560 | 528 | 528 | 560 | 560 | - | PPST ³ | 24 mm \emptyset 24 mm \emptyset 50 mm \square 10 mm \square 24 mm \emptyset |
| | 0.2 - 10 mg/l ^{d)} | - | 528 | - | - | - | - | | |
| | 0.01 - 0.5 mg/l | - | - | - | - | - | 562 | | |
| | 0.1 - 1 mg/l | - | - | - | - | - | 562 | | |
| | 0.1 - 1 mg/l | - | - | - | - | - | 562 | | |
| Iron VARIO (II, III) soluble | 0.02 - 3 mg/l | 530 | - | - | 530 | 530 | - | 1,10-Phenanthroline ² | 24 mm \emptyset |
| | 0.1 - 3 mg/l | - | - | - | - | - | 510 | | |
| Iron VARIO, total ^{g)} | 0.02 - 1.8 mg/l | 580 | - | - | 580 | 580 | - | TPTZ ^{g)} | 24 mm \emptyset |
| | 0.1 - 1.8 mg/l | - | - | - | - | - | 590 | | |
| Lead (Pb²⁺) | 0.1 - 5 mg/l | - | - | - | - | - | 520 | 4-(2-Pyridylazo)-resorcin | 10 mm \square |
| Lead (Pb²⁺) | 0.1 - 5 mg/l | - | - | - | - | - | 515 | 4-(2-Pyridylazo)-resorcin | 16 mm \emptyset |
| Manganese | 0.2 - 4 mg/l | 530 | - | - | 530 | 530 | 450 | Formaloxime | 24 mm \emptyset |
| | 0.05 - 4 mg/l | - | 430 | - | - | - | - | | |
| 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 |

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

| Display | Reagent | Form of reagent/Quantity | Order code |
|-------------------------------|--|--|--|
| Pt-Co-units | no reagents required | - | - |
| N ₂ H ₄ | Hydrazine Test Powder Spoon | Powder / 30 g | 462910 384930 |
| N ₂ H ₄ | VARIO Hydra 2 Rgt Solution | Solution / 100 ml | 531200 |
| N ₂ H ₄ | Vacu-vial® | Test Kit / 30 | 380470 |
| H ₂ O ₂ | HYDROGENPEROXIDE LR | Tablet / 100 | 4512380 |
| I | DPD No. 1 | Tablet / 100 | 4511060BT |
| Fe | IRON LR IRON (II) LR | Tablet / 100 Tablet / 100 | 4515370 4515420 |
| Fe | VARIO Ferro F10 | Powder Pack / 100 | 530560 |
| Fe | VARIO TPTZ F10 | Powder Pack / 100 | 530550 |
| Pb | Spectroquant® 1.09717.0001 ^{d)} | Reagent test / 50 Tests | 420753 |
| Pb | Spectroquant® 1.14833.0001 ^{d)} | Tube test / 25 | 420754 |
| 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 | 4516080 4516090 4517621 4517622 |
| 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 | 535090 530640 |
| Mn | VARIO Manganese Citrate Puffer F10 VARIO Sodiumperiodate F10 | Powder Pack / 100 Powder Pack / 100 Set | 535100 |

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|---|------------------------------------|-----------------------------|-------|--------|-------|-------|------------|---|--------------------------------------|
| | | AL100 | AL250 | AL250+ | AL400 | AL450 | AL800 | | |
| Molybdate | 1 - 50 mg/l 1 - 30 mg/l | - | - | - | 430 | 430 | - | Thioglycolate ⁴ | 24 mm \emptyset |
| | | - | - | - | - | - | 366 | | |
| Molybdate VARIO | 0.5 - 66 mg/l | - | - | - | 430 | 430 | 420 | Mercaptoacetic acid | 24 mm \emptyset |
| Monochloramine VARIO | 0.04 - 4.5 mg/l | 660 | - | - | 660 | 660 | - | Indophenol | 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 |
| 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 0.05 - 0.5 mg/l | - | - | - | 560 | 560 | 545 - | N-(1-Naphthyl)- ethylenediamine ^{2,3} | 24 mm \emptyset |
| | | - | 528 | - | - | - | - | | |
| 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 i) | - | - | - | - | - | 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 |

Material safety data sheets: www.aqualytic.com

For other reagent quantities please see our current price list.

Legend

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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®

| Display | Reagent | Form of reagent/Quantity | Order code |
|------------------|--|---|--|
| MoO ₄ | 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 | 4513060 4513070 4517631 4517632 |
| MoO ₄ | VARIO Molybdenum HR1 F10 VARIO Molybdenum HR2 F10 VARIO Molybdenum HR3 F10 | Powder Pack / 100 Powder Pack / 100 Powder Pack / 100 Set | 535300 |
| Cl ₂ | VARIO Monochlor FRGT | Powder Pack / 100 | 531810 |
| Ni | Nickel-51, Nickel-52 | Reagent test (Powder, Liquid reagent) / 50 Tests | 419033 |
| N | 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) | 535580 |
| N | Reaction tube, Nitrat-111 | Tube test Liquid reagent / 24 | 420702 |
| N | NITRITE LR | Tablet / 100 | 4512310 |
| N | Reaction tube, Nitrit-101 | Tube test (Powder) / 24 | 419018 |
| N | VARIO Nitri 3 | Powder Pack / 100 | 530980 |
| N | Digestion reagent, Compensation reagent, Nitrat-111 | Tube test (Powder, Liquid reagent) / 24 | 420703 |
| 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 tubes / 50 Bottle, 100 ml Set (Tube test) | 535550 |
| 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) | 535560 |

^{a)} determination of free, combined and total

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^{c)} AL450: 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 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)} Reagent recovers most insoluble iron oxides without digestion

^{h)} additionally required for samples with hardness values above 300 mg/l CaCO₃

^{l)} high range by dilution

no BT blister tablets, including stirring rod

Reagents

| Test | Range | Wave lengths λ / nm | | | | | | Method | Cuvette |
|---|--|-----------------------------|-------|--------|-------|-------|-------|---|---|
| | | AL100 | AL250 | AL250+ | AL400 | AL450 | AL800 | | |
| Oxygen, activ | 0.1 - 10 mg/l | - | - | - | 530 | 530 | - | DPD | |
| Oxygen, dissolved ^{c)} | 10 - 800 μ g/l | - | - | - | 530 | 530 | - | Rhodazine D TM | |
| 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 | - | | |
| Ozone (Indigo) | 0.05 - 0.5 mg/l | - | 605 | - | - | - | - | | 24 mm \emptyset |
| Phenols | 0.1 - 5 mg/l | - | - | - | - | - | 507 | 4-Aminoantipyrine ¹ | 24 mm \emptyset |
| PHMB (Biguanide) | 2 - 60 mg/l | - | - | - | 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 | 660 | 710 | Phosphomolybdic acid/ Ascorbic acid ² | 24 mm \emptyset |
| Phosphate HR, ortho | 10 - 100 mg/l | - | 470 | - | - | - | - | Vanadomolybdate ² | 24 mm \emptyset |
| | 1 - 80 mg/l | - | - | - | 430 | 430 | 470 | | |
| Phosphate VARIO ortho | 0.06 - 2.5 mg/l | 660 | - | - | 660 | 660 | 890 | Ascorbic acid ² | 24 mm \emptyset |
| Phosphate VARIO ortho | 0.06 - 5 mg/l | - | - | - | 660 | 660 | 890 | 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 Ascorbic acid ² | 16 mm \emptyset |
| | total: 0.02 - 1.1 mg/l 0.06 - 3.5 mg/l | - | - | - | - | - | - | Acid-/ Persulphate digestion Ascorbic acid ² | 16 mm \emptyset |

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Legend

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⁴ Photometrische Analyse, Lange/Vejdelek, Verlag Chemie; 1980

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

| Display | Reagent | Form of reagent/Quantity | Order code |
|--|---|---|---|
| O ₂ | DPD No. 4 | Tablet / 100 | 4511220BT |
| O ₂ | Vacu-vial® | Liquid reagent / 30 | 380450 |
| O ₃ | DPD No. 1 DPD No. 3 Combi pack# DPD No.1 / No.3 Combi pack# DPD No.1 / No.3 GLYCINE ¹⁾ Combi pack# DPD No.1 / GLYCINE Combi pack# DPD No.1 / GLYCINE | Tablet / 100 Tablet / 100 each 100 each 250 Tablet / 100 each 100 each 250 | 4511060BT 4511080BT 4517711 4517712 4512170 4517731 4517732 |
| O ₃ | OZONE | Tablet / 100 | 4513170 |
| C ₆ H ₅ O _H | PHENOLE No. 1 PHENOLE No. 2 | Tablet / 100 Tablet / 100 | 4515950 4515960 |
| PHMB | PHMB PHOTOMETER | Tablet / 100 | 4516100 |
| P PO ₄ | Reaction tube, Phosphat-101, Phosphat-102, Phosphat-103 | Tube test (Powder, Liquid reagent) / 24 | 419019 |
| P PO ₄ | Reaction tube, Phosphat-101, Phosphat-102, Phosphat-103 | Tube test (Powder, Liquid reagent) / 24 | 420700 |
| PO ₄ | PHOSPHATE No. 1 LR PHOSPHATE No. 2 LR Combi pack# PHOSPHATE No.1 LR / No.2 LR Combi pack# PHOSPHATE No.1 LR / No.2 LR | Tablet / 100 Tablet / 100 each 100 each 200 | 4513040 4513050 4517651 4517652 |
| PO ₄ | PHOSPHATE No. 1 HR PHOSPHATE No. 2 HR Combi pack# PHOSPHATE No.1 HR / No.2 HR Combi pack# PHOSPHATE No.1 HR / No.2 HR | Tablet / 100 Tablet / 100 each 100 each 200 | 4515810 4515820 4517661 4517662 |
| PO ₄ | VARIO Phosphate Rgt., F10 | Powder Pack / 100 | 531550 |
| PO ₄ | VARIO Dilution Vial VARIO Phosphate RGT, F10 VARIO Deionised Water (for Zero) | 50 Tubes Powder Pack / 50 Bottle, 100 ml Set (Tube test) | 535200 |
| PO ₄ | Reaction tube | Tube test / 24 | 420701 |
| P PO ₄ P PO ₄ | VARIO Acid Reagent Vial VARIO Phosphate Rgt., F10 VARIO Deionised Water (for Zero) 1N NaOH 1,54 N NaOH VARIO Potassium Persulfate F10 | 50 Tubes Powder Pack / 50 Bottle, 100 ml Bottle / 100 ml Bottle / 100 ml Powder Pack / 50 Set (Tube test) | 535250 |

^{a)} determination of free, combined and total

^{b)} Reactor is necessary for COD (150°C), TOC (120°C) and total -chromium, - phosphate, -nitrogen, (100°C)

^{c)} AL450: 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 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)} Reagent recovers most insoluble iron oxides without digestion

^{h)} additionally required for samples with hardness values above 300 mg/l CaCO₃

^{l)} high range by dilution

no BT blister tablets, including stirring rod

Reagents

| Test | Range | Wave lengths λ / nm | | | | | | Method | Cuvette |
|---|------------------------|-----------------------------|-------|--------|-------|-------|-------|---|-------------------|
| | | AL100 | AL250 | AL250+ | AL400 | AL450 | AL800 | | |
| Phosphate VARIO gesamt ^{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 | |
| Phosphonate VARIO | 0.02 - 125 mg/l | - | - | - | 660 | 660 | - | Persulfate UV-Oxidation | 24 mm \emptyset |
| pH value | 5.2 - 6.8 | - | - | - | 560 | 560 | - | Bromcresol purple ⁵ | 24 mm \emptyset |
| pH value | 6.5 - 8.4 | 560 | - | 528 | 560 | 560 | 558 | Phenol red ⁵ | 24 mm \emptyset |
| pH value | 6.5 - 8.4 | 560 | - | 528 | 560 | 560 | 558 | Phenol red ⁵ | 24 mm \emptyset |
| pH value | 8.0 - 9.6 | - | - | - | 560 | 560 | - | Thymol blue ⁵ | 24 mm \emptyset |
| Potassium | 0.7 - 12 mg/l | - | - | - | 430 | 430 | - | Tetraphenylborate- Turbidity ⁴ | 24 mm \emptyset |
| | 1 - 10 mg/l | - | - | - | - | - | 730 | | 24 mm \emptyset |
| Silica | 0.05 - 4 mg/l | 660 | 580 | - | 660 | 660 | - | Silicomolybdate ^{2,3} | 24 mm \emptyset |
| | 0.05 - 3 mg/l | - | - | - | - | - | 820 | | |
| 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 | 430 | - | - | 430 | 430 | - | Silicomolybdate ^{2,3} | 24 mm \emptyset |
| | 1 - 100 mg/l | - | - | - | - | - | 452 | | 24 mm \emptyset |
| Sodiumhypochlorite | 0.2 - 16 % | - | - | - | 530 | 530 | - | Potassium iodide ⁵ | 24 mm \emptyset |
| Spectral Absorption-coefficient | 0 - 50 m ⁻¹ | - | - | - | - | - | 436 | Direct reading ¹ ISO 7887:1994 | 50 mm \square |
| | | - | - | - | - | - | 525 | | |
| | | - | - | - | - | - | 620 | | |

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

| Display | Reagent | Form of reagent/Quantity | Order code |
|----------------------|---|---|---|
| P PO ₄ | VARIO Acid Reagent Vial VARIO Phosphate Rgt., F10 VARIO Deionised Water (for Zero) 1,54 N NaOH VARIO Potassium Persulfate F10 | 50 Tubes Powder Pack / 50 Bottle, 100 ml Bottle / 100 ml Powder Pack / 50 Set (Tube test) | 535210 |
| PO ₄ | Vacu-vial® | Test Kit / 30 | 380460 |
| PO ₄ | Vacu-vial® | Test Kit / 30 | 380480 |
| PO ₄ | VARIO Potassium Persulfate F10 VARIO Phosphate Rgt. F10 | Powder Pack / 100 Powder Pack / 200 Set | 535220 |
| pH | BROMOCRESOLPURPLE/PHOTOMETER | Tablet / 100 | 4515700 |
| pH | PHENOLRED / PHOTOMETER | Tablet / 100 | 4511770BT |
| pH | PHENOLRED Solution | Liquid reagent / 15 ml | 471040 |
| pH | THYMOLBLUE / PHOTOMETER | Tablet / 100 | 4515710 |
| K | POTASSIUM T | Tablet / 100 | 4515670 |
| SiO ₂ | SILICA No. 1 SILICA No.2 Combi pack# SILICA No.1 / No.2 Combi pack# SILICA No.1 / No.2 SILICA PR (in presence of phosphate) | Tablet / 100 Tablet / 100 each 100 each 250 Tablet / 100 | 4513130 4513140 4517671 4517672 4513150 |
| SiO ₂ | VARIO Amino Acid F10 VARIO Citric Acid F10 VARIO Molybdate 3 Reagent solution | Powder Pack / 100 Powder Pack / 100 Liquid reagent / 50 ml Set | 535690 |
| 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 | 535700 |
| NaOCl | ACIDIFYING GP CHLORINE HR (KI) Combi pack# CHLORINE HR (KI)/ACIDIFYING GP Combi pack# CHLORINE HR (KI)/ACIDIFYING GP | Tablet / 100 Tablet / 100 each 100 each 250 | 4515480 4513000 4517721 4517722 |
| - | no reagents required | - | - |

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ⁱ⁾ high range by dilution

no BT blister tablets, including stirring rod

Reagents

| Test | Range | Wave lengths λ / nm | | | | | | Method | Cuvette |
|------------------------------|--|-----------------------------|-------|--------|-------|-------|-------|--|---|
| | | AL100 | AL250 | AL250+ | AL400 | AL450 | AL800 | | |
| Sulphate VARIO | 5 - 100 mg/l 2 - 100 mg/l | - | - | - | 530 | 530 | - | Bariumsulphate Turbidity ² | 24 mm \emptyset |
| Sulphate | 5 - 100 mg/l | - | - | - | 610 | 610 | - | Bariumsulphate Turbidity ² | 24 mm \emptyset |
| Sulphide | 0.04 - 0.5 mg/l | - | - | - | 660 | 660 | 668 | DPD/Catalyst ^{3,4} | 24 mm \emptyset |
| Sulphite | 0.1 - 5 mg/l 0.1 - 10 mg/l 0.05 - 4 mg/l | - | - | - | 430 | 430 | - | DTNB | 24 mm \emptyset 10 mm o 24 mm \emptyset |
| Surfactants (anionic) | 0.05 - 2 mg/l | - | - | - | - | - | 653 | Methylene blue ¹ | 16 mm \emptyset |
| Suspended solids | 5 - 750 mg/l | - | 605 | - | 660 | 660 | - | Turbidity/Attenuated Radiation | 24 mm \emptyset |
| TOC ^{b)} | 50 - 800 mg/l | - | - | - | - | - | 596 | H ₂ SO ₄ / Indicator | 16 mm \emptyset |
| Turbidity | 5 - 500 0 - 1000 0.01 - 1100 | - | - | - | - | - | 860 | Attenuated Radiation Method | 50 mm \square |
| | | - | - | - | 530 | 530 | - | Attenuated Radiation Method | 24 mm \emptyset |
| | | - | 860 | - | - | - | - | Nephelometric | 24 mm \emptyset |
| Urea | 0.1 - 2.5 mg/l 0.2 - 5 mg/l ^{b)} 0.1 - 2 mg/l | - | 660 | 660 | 610 | 610 | - | Urease / Indophenol | 24 mm \emptyset |
| | | - | 660 | - | - | - | - | | |
| | | - | - | - | - | - | 676 | | |
| Zinc | 0.02 - 1 mg/l 0.02 - 0.5 mg/l | - | 580 | - | 610 | 610 | - | Zincon ⁵ /EDTA | 24 mm \emptyset |
| | | - | - | - | - | - | 616 | | |

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⁴ Photometrische Analyse, Lange/Vejdelek, Verlag Chemie; 1980

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

| Display | Reagent | Form of reagent/Quantity | Order code |
|----------------------------------|--|--|--|
| SO ₄ | VARIO Sulpha 4 / F10 | Powder Pack / 100 | 532160 |
| SO ₄ | SULFATE T | Tablet / 100 | 4515450 |
| S | SULFIDE No. 1 SULFIDE No. 2 | Tablet / 100 Tablet / 100 | 502930 502940 |
| SO ₃ | SULFITE LR | Tablet / 100 | 4518020 |
| MBAS | Spectroquant® 1.14697.0001d) | Tube test / 25 | 420755 |
| - | no reagents required | - | - |
| TOC | Spectroquant® 1.14879.0001d) | Tube test / 25 Aluminium screwcaps / 6 pc. | 420756 420757 |
| FAU FAU NTU | no reagents required | - | - |
| CH ₄ N ₂ O | 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 | Liquid reagent / 15 ml Liquid reagent / 10 ml Tablet / 100 Tablet / 100 each 100 each 250 | 459300 459400 4512580 4512590 4517611 4517612 |
| Zn | COPPER/ZINC LR EDTA DECHLOR (in case of high levels of residual chlorine) | Tablet / 100 Tablet / 100 Tablet / 100 | 4512620 4512390 4512350 |

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