

Reagents also suitable for use in Hach Photometer Systems

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VARIO Powder Packs (PP) and Reagents for Photometry

Test	Range	Reagent	Liquid Reagent	Tube Tests	Powder Pack
Aluminium	0 – 0.22 mg/l Al	VARIO Aluminium Reagent, Set F20 consists of: VARIO Aluminium ECR VARIO Aluminium Hexamine VARIO Aluminium Masking Rgt	■		■
Ammonia	0 – 0.5 mg/l N	VARIO Ammonia Nitrogen, Set F10 consists of: VARIO Ammonia Salicylate, F10 VARIO Ammonia Cyanurate, F10			■
Ammonia LR	0 – 2.5 mg/l N	VARIO Am tube test Reagent, Set LR, F5 consists of: VARIO Ammonia Salicylate, F5 VARIO Ammonia Cyanurate, F5 VARIO Am Diluent Reagent Low Range		■	■
Ammonia HR	0 – 50 mg/l N	VARIO Am tube test Reagent, Set HR, F5 consists of: VARIO Ammonia Salicylate, F5 VARIO Ammonia Cyanurate, F5 VARIO Am Diluent Reagent High Range		■	■
Ammonia, free (Part of method monochloramine)	0.01 - 0.5 mg/l N	VARIO FREE AMMONIA REAGENT SET consists of: VARIO Free Ammonia Reagent Solution VARIO Monochlor FRGT	■		■
Chlorine free, combined and total Chlorine dioxide	Visuelles Test Kit bis 3,5mg/l Cl ₂	VARIO Chlorine FREE-DPD, F5			■
	0.01 – 2 mg/l Cl ₂	VARIO Chlorine FREE-DPD, F5 VARIO Chlorine TOTAL-DPD, F5 VARIO Chlorine TOTAL-DPD, F5 VARIO Chlorine FREE-DPD, F10 VARIO Chlorine FREE-DPD, F10 VARIO Chlorine TOTAL-DPD, F10 VARIO Chlorine TOTAL-DPD, F10 VARIO Chlorine FREE-DPD, F25 VARIO Chlorine FREE-DPD, F25 VARIO Chlorine TOTAL-DPD, F25 VARIO Chlorine TOTAL-DPD, F25			■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■
	0 – 5 mg/l Cl ₂				■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■
COD LR	0 – 150 mg/l O ₂	COD VARIO 0 - 150 mg/l		■ ■ ■	
COD MR	0 – 1500 mg/l O ₂	COD VARIO 0 - 1500 mg/l		■ ■ ■ ■	
COD HR	0 – 15000 mg/l O ₂	COD VARIO 0 - 15000 mg/l		■ ■ ■	
Copper	0 – 5 mg/l Cu	VARIO CU1, F10 VARIO CU1, F10			■ ■
DEHA	20 - 500 µg/l DEHA	VARIO DEHA REAGENT SET consists of: VARIO OXYSCAV 1 RGT VARIO DEHA 2 RGT	■		■

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Method	Applications	Quantity	Code
Eriochrome cyanine R	Water	1 Set 100 100 25 ml	535000
Salicylate	Water, waste water, seawater	1 Set 2 x 100 2 x 100	535500
Salicylate	Water, waste water, seawater	1 Set 50 50 50 tubes	535600
Salicylate	Water, waste water, seawater	1 Set 50 50 50 tubes	535650
Indophenol	Water	1 Set 5 ml 100	535800 531810
DPD-Methode: USEPA accepted for drinking water analysis	Water, waste water, seawater	100 1000 100 1000	530090 530093 530080 530083
DPD-Methode: USEPA accepted for drinking water analysis	Water, waste water, seawater	100 1000 100 1000	530100 530103 530120 530123
DPD-Methode: USEPA accepted for drinking water analysis	Water, waste water, seawater	100 1000 100 1000	530110 530113 530130 530133
Dichromate Reactor, Digestion	Water, waste water, seawater	25 tubes 150 tubes 25 tubes, mercury free	420720 420725 420710
Dichromate Reactor, Digestion	Water, waste water, seawater	25 tubes 150 tubes 25 Küv., quecksilberfrei 150 tubes, mercury free	420721 420726 420711 420716
Dichromate Reactor, Digestion	Water, waste water, seawater	25 tubes 150 tubes 25 tubes, mercury free	420722 420727 420712
Bicinchoninate	Water, waste water, seawater	100 1000	530300 530303
PPST		1 Set 100 100 ml	536000

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Hydrazine	0.005 – 0.6 mg/l N ₂ H ₄	VARIO Hydra2 Reagent	■		
Iron (Fe ²⁺ , Fe ³⁺), dissolved	0 – 3 mg/l Fe 0 – 1.8 mg/l Fe	VARIO Ferro, F10 VARIO IRON TPTZ			■ ■
Manganese LR	0 – 0.7 mg/l Mn	VARIO Manganese Reagent, Set LR, F10 consists of: VARIO Alkaline-Cyanide Reagent Solution VARIO Ascorbic Acid VARIO PAN Indicator Solution	■ ■		■
Manganese HR	0 – 20 mg/l Mn	VARIO Manganese Reagent, Set HR, F10 consists of: VARIO MANGANESE CITRATE BUFFER, F10 VARIO SODIUMPERIODATE, F10			■ ■
Molybdate HR	0 – 35 mg/l Mo	VARIO MOLYBDENUM HR, Set F10 consists of: VARIO MOLYBDENUM HR1, F10 VARIO MOLYBDENUM HR2, F10 VARIO MOLYBDENUM HR3, F10			■ ■ ■
	0 – 35 mg/l Mo	VARIO MOLYBDENUM HR, Set F25 consists of: VARIO MOLYBDENUM HR1, F25 VARIO MOLYBDENUM HR2, F25 VARIO MOLYBDENUM HR3, F25			■ ■ ■
Monochloramine	0.04 - 4.5 mg/l Cl ₂	VARIO FREE AMMONIA REAGENT SET consists of: VARIO Free Ammonia Reagent Solution VARIO Monochlor FRGT	■		■
Nitrate	0 – 30 mg/l N	VARIO NITRA X Reagent, Set consists of: VARIO NITRA X Test vials VARIO NITRA NITROGEN NITRATE Reag. B Deionised water		■	■
Nitrogen, gesamt LR	0 – 25 mg/l N	VARIO TOTAL NITROGEN LR, Set consists of a) und b): a) VARIO TOTAL NITROGEN HYDROX. LR, Set VARIO TOTAL NITROGEN HYDROX. LR, tubes VARIO TOTAL N PERSULFATE Reagent, b) VARIO TOTAL NITROGEN ACID LR/HR, Set VARIO TOTAL NITROGEN Reag. A VARIO TOTAL NITROGEN Reag. B VARIO TOTAL NITROGEN ACID LR/HR tubes Deionised water	■	■	■ ■ ■
Nitrogen, gesamt HR	10 – 150 mg/l N	VARIO TOTAL NITROGEN HR, Set consists of a) und b): a) VARIO TOTAL NITROGEN HYDROX. HR, Set VARIO TOTAL NITROGEN HYDROX. HR, tubes VARIO TOTAL N PERSULFATE Reagent, b) VARIO TOTAL NITROGEN ACID LR/HR, Set VARIO TOTAL NITROGEN Reag. A VARIO TOTAL NITROGEN Reag. B VARIO TOTAL NITROGEN ACID LR/HR tubes Deionised water	■	■	■ ■ ■

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Method	Applications	Quantity	Code
4-(Dimethylamino)-benzaldehyde	Water, waste water, seawater	100 ml	531200
Iron, total: 1, 10-phenantroline Iron, total: TPTZ	Water, waste water, seawater Water, waste water, seawater	100 100	530560 530550
		1 Set	535090
PAN	Water, waste water	60 ml 100 60 ml	
Periodate oxidation	Water, waste water	1 Set	535100
		100 100	
		1 Set	535300
Mercaptoacetic acid	Water, waste water	100 100 100	
		1 Set	535400
Mercaptoacetic acid	Water, waste water	100 100 100	
Indophenol	Water	1 Set	535800
		5 ml 100	531810
Chromotropic acid	Water, waste water	1 Set	535580
		50 50 100 ml	
		1 Set	535550
Persulfate digestion	Water, waste water	50 50	
		50 50 50 100 ml	
		1 Set	535560
Persulfate digestion	Water, waste water	50 50	
		50 50 50 100 ml	

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Test	Range	Reagent	Liquid Reagent	Tube Tests	Powder Pack
Nitrite LR	0 – 0.3 mg/l N	VARIO NITRI3, F10 VARIO NITRI3, F25			■ ■
Phosphate	0 – 2.5 mg/l PO ₄	VARIO PHOS3, F10			■
Phosphate, ortho	0.06 - 5 mg/l PO ₄	VARIO REACTIVE PHOSPHATE REAGENT SET consists of: VARIO PHOSPHATE DILUTION TUBE TEST VARIO PHOS3, F10 Deionised water	■	■	■
Phosphate, Acid hydrolyzable and total	acid hydrolyzable: 0.02 - 1.6 mg/l P ≙ 0.06 - 5 mg/l PO ₄ total: 0.02 - 1.1 mg/l P ≙ 0.06 - 3.5 mg/l PO ₄	VARIO TOTAL & ACID HYDROLYZABLE PHOSPHATE REAGENT SET consists of: VARIO PHOSPHATE ACID REAG. TUBE TEST Deionised water VARIO PHOS3, F10 VARIO SODIUM HYDROXID 1N VARIO SODIUM HYDROXID 1,54N VARIO POTASSIUM PERSULFATE	■ ■ ■	■	■ ■
Phosphate, total	0.02 - 1.1 mg/l P ≙ 0.06 - 3.5 mg/l PO ₄	VARIO TOTAL PHOSPHATE REAGENT SET consists of: VARIO PHOSPHATE ACID REAG. TUBE TEST VARIO PHOS3, F10 Deionised water VARIO SODIUM HYDROXID 1,54N VARIO POTASSIUM PERSULFATE	■ ■	■	■ ■
Phosponate	0.02 - 125 mg/l PO ₄	VARIO PHOSPHONATE REAGENT SET consists of: VARIO Potassium Persulfate F10 VARIO PHOS3, F10			■ ■
Silica, LR	0 – 1.6 mg/l SiO ₂	VARIO SILICA Reagent LR, Set F10 consists of: VARIO LR SILICA AMINO ACID F VARIO SILICA CITRIC ACID VARIO MOLYBDATE 3 Reagent solution	■		■ ■
Silica, HR	0 – 100 mg/l SiO ₂	VARIO SILICA Reagent HR, Set F10 consists of: VARIO SILICA HR MOLYBDATE, F10 VARIO SILICA HR ACID RGT, F10 VARIO SILICA CITRIC ACID, F10			■ ■ ■
Silica, UHR	0 – 200 mg/l SiO ₂	VARIO SILICA Reagent HR, Set F25 consists of: VARIO SILICA HR MOLYBDATE, F25 VARIO SILICA HR ACID RGT, F25 VARIO SILICA HR CITRIC ACID, F25			■ ■ ■
Sulphate	0 – 70 mg/l SO ₄	VARIO Sulpha 4, F10 VARIO Sulpha 4, F25			■ ■

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Diazotiation	Water, waste water	100 100	530980 530970
Phosphomolybdate/Ascorbic acid	Water, waste water, seawater	100	531550
Phosphomolybdate/ Ascorbic acid	Water, seawater	1 Set 50 50 100 ml	535200
Phosphomolybdate/ Ascorbic acid	Water, seawater	1 Set 50 50 100 ml 100 ml 100 ml 50	535250
Phosphomolybdate/ Ascorbic acid	Water, seawater	1 Set 50 50 100 ml 100 ml 50	535210
Persulfate UV-Oxidation	Water	1 Set 100 200	535200
Heteropoly blue	Water, seawater	1 Set 100 100 50 ml	535690
Silicomolybdate	Water, seawater	1 Set 100 100 100	535700
Silicomolybdate	Water, seawater	1 Set 100 100 100	535900
USEPA accepted for waste water analysis	Water, waste water, seawater	100 100	532160 532150