

Vario Reagents



Lovibond®

since 1885

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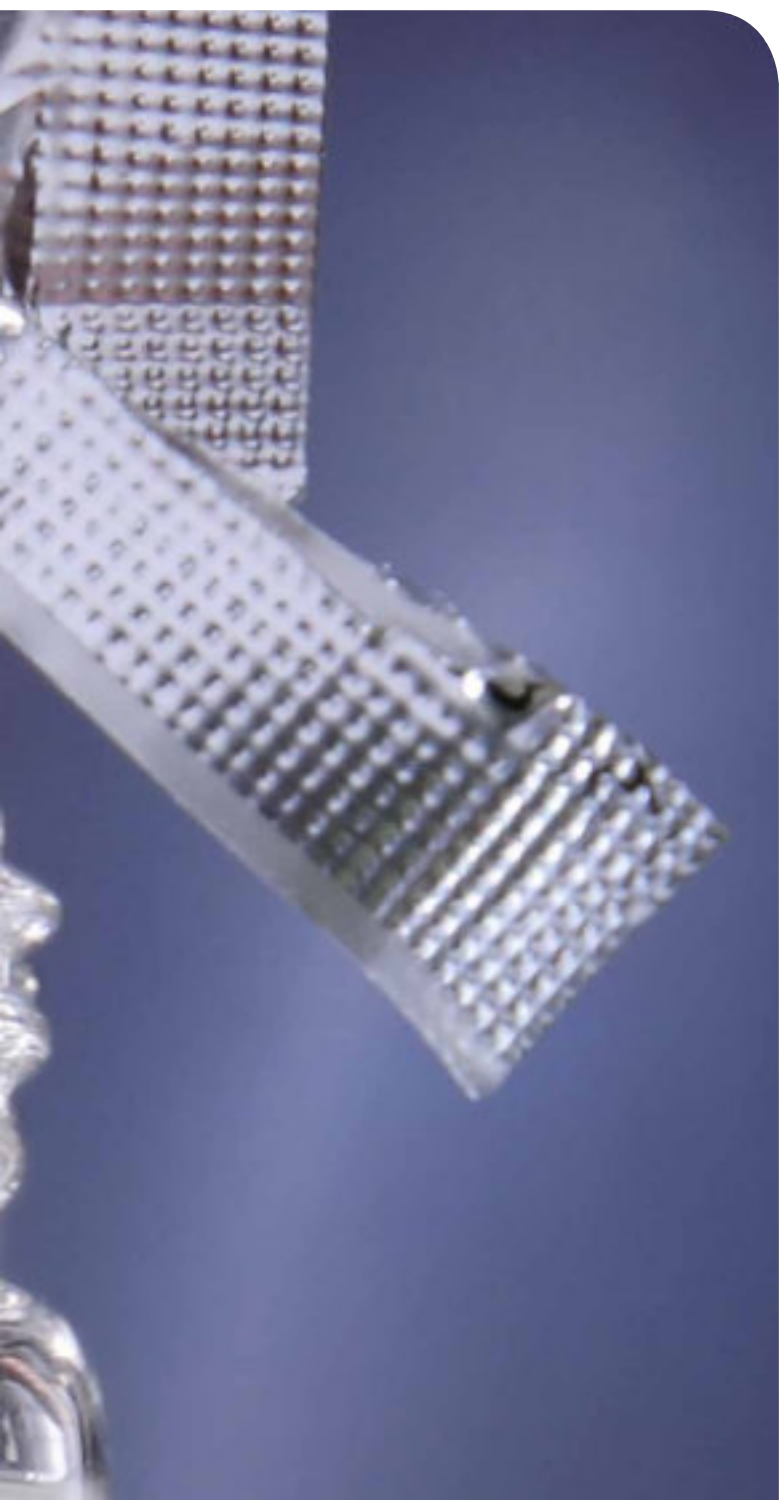
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Choice, Service, Trust
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Reagents
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Powder dispenser PD250
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ProcessChlorine Analyser Reagents

Suitable for Hach® CL17™* Chlorine analysers



Chlorine Analyser Reagents are available with the quality and longevity expected of the Lovibond® brand. That means **highest accuracy at low cost**.

These reagents can be used on the online system without additions or updates as they are supplied in compatible bottle size.

Delivery Content

Reagent set for processchlorine analyser in bag

Free Chlorine

- 1 bottle, 473 ml DPDIndicator Solution "Free Chlorine"
- 1 bottle, 473 ml DPDBuffer Solution " FreeChlorine"
- 1 bottle, 24 g DPDIndicator Powder
Order code: 53 02 10

Total Chlorine

- 1 bottle, 473 ml DPDIndicator Solution "Total Chlorine"
- 1 bottle, 473 ml DPDBuffer Solution "Total Chlorine"
- 1 bottle, 24 g DPDIndicator Powder
Order code: 54 02 10

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Determination of chlorine according to ISO 7393-2:2000 (free + total)

Chlorine DPD Powder Dispenser PD 250



Vario Reagents

Delivery Content

PD250 in carton including 1 reagent vial and instruction manual

PD250 Set 1 - Free Chlorine

- 1 powder dispenser "Free Chlorine"
- 1 reagent vial "Free Chlorine"
- 1 instruction manual
- 1 protective sleeve (rubber)

Order code: 19 49 00

PD250 Set 2 - Total Chlorine

- 1 powder dispenser "Total Chlorine"
- 1 reagent vial "Total Chlorine"
- 1 instruction manual
- 1 protective sleeve (rubber)

Order code: 19 49 10

Refill Packs

Article

Chlorine **Free** 10 ml
2 reagent vials

Chlorine **Total** 10 ml
2 reagent vials

Chlorine **Free + Total** 10 ml
one reagent vial each

VARIO Chlorine **Free** 10 ml
2 reagent vials

VARIO Chlorine **Total** 10 ml
2 reagent vials

VARIO Chlorine **Free + Total** 10 ml
one reagent vial each

Order code

53 01 40

53 01 50

53 01 60

53 01 45

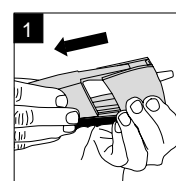
53 01 55

53 01 65

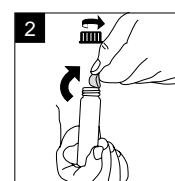
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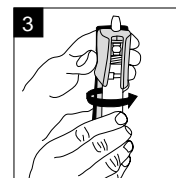
EasyHandling



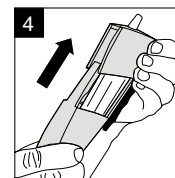
Remove the dispenser cover.



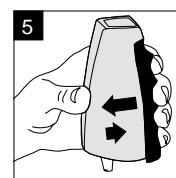
Uncap the reagent vial and remove the seal. Use material within 6 months of removing the seal.



Hold the dispenser with the tip upright and screw the vial on to the dispenser.



Slide the cover into the grooves until the lower end snaps into place.



To use: Hold with the tip down and press the blue handle towards the dispenser body.



Reagents VARIO Powder Packs(PP)and Reagents

(also compatible in Hach® instruments*)

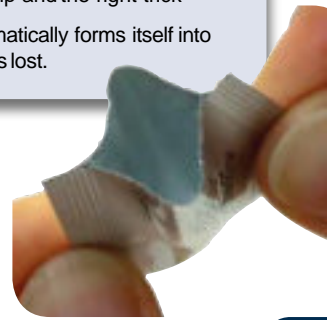
Test	Range	Reagent	Liquid Reagent	Tube Tests	Powder Pack
Aluminium	0 – 0,22 mg/l Al	VARIO Aluminium Reagent, Set F20 consists of: VARIO Aluminium ECR VARIO Aluminium Hexamine VARIO Aluminium Masking Rgt			
Ammonia	0 – 0,5 mg/l N	VARIO Ammonia Nitrogen, Set F10 consists of: VARIO Ammonia Salicylate, F10 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			
Bromine	0,05 - 4,5 mg/l Br	VARIO Chlorine TOTAL-DPD, F10 VARIO Chlorine TOTAL-DPD, F10			
Chlorine free, combined and total Chlorine dioxide	Visual Test Kit up to 3,5mg/l Cl ₂ 0,01 - 2 mg/l Cl ₂ 0 - 5 mg/l Cl ₂	VARIO Chlorine FREE-DPD, F5 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			
Chlorine, online free and total	0,035 - 5 mg/l Cl ₂	Chlorine FREE Set consists of: Chlorine, DPD Compound (free & total) Chlorine FREE, Indicator Solution Chlorine FREE, Buffer Solution Chlorine TOTAL Set consists of: Chlorine, DPD Compound (free & total) Chlorine TOTAL, Indicator Solution Chlorine TOTAL, Buffer Solution			
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			

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Pouches

Our Powder Packs have the right kink:
The powder reagent can be used easily with
two fingers in one grip and the right trick

The packaging automatically forms itself into
a funnel so nothing is lost.



Method	Applications	Quantity	Code
Eriochrome cyanine R	Water	1 Set 100 100 25 ml	53 50 00
Salicylate	Water, waste water, seawater	1 Set 2 x 100 2 x 100	53 55 00
Salicylate	Water, waste water, seawater	1 Set 50 50 50 tubes	53 56 00
Salicylate	Water, waste water, seawater	1 Set 50 50 50 tubes	53 56 50
DPDmethod: USEPA accepted for drinking water analysis	Water, waste water, seawater	100 1000	53 01 90 53 01 93
DPDmethod: USEPA accepted for drinking water analysis	Water, waste water, seawater	100	53 00 90
DPDmethod: USEPA accepted for drinking water analysis	Water, waste water, seawater	1000	53 00 93
DPDmethod: USEPA accepted for drinking water analysis	Water, waste water, seawater	100	53 00 80
DPDmethod: USEPA accepted for drinking water analysis	Water, waste water, seawater	1000	53 00 83
DPDmethod: USEPA accepted for drinking water analysis	Water, waste water, seawater	100	53 01 80
DPDmethod: USEPA accepted for drinking water analysis	Water, waste water, seawater	1000	53 01 83
DPDmethod: USEPA accepted for drinking water analysis	Water, waste water, seawater	100	53 01 90
DPDmethod: USEPA accepted for drinking water analysis	Water, waste water, seawater	1000	53 01 93
DPDmethod: USEPA accepted for drinking water analysis	Water, waste water, seawater	100	53 01 10
DPDmethod: USEPA accepted for drinking water analysis	Water, waste water, seawater	1000	53 01 13
DPDmethod: USEPA accepted for drinking water analysis	Water, waste water, seawater	100	53 01 30
DPDmethod: USEPA accepted for drinking water analysis	Water, waste water, seawater	1000	53 01 33
DPDmethod: USEPA accepted for drinking water analysis	for use in Hach® CL17 Process Analysers	1 Set 24 g	53 02 10 53 02 00
DPDmethod: USEPA accepted for drinking water analysis	for use in Hach® CL17	473 ml	53 02 22
DPDmethod: USEPA accepted for drinking water analysis	in Hach® CL17 Process Analysers	473 ml	53 02 23
DPDmethod: USEPA accepted for drinking water analysis	Process Analysers	1 Set 24 g	54 02 10 53 02 00
DPDmethod: USEPA accepted for drinking water analysis	Process Analysers	473 ml	54 02 22
DPDmethod: USEPA accepted for drinking water analysis	Process Analysers	473 ml	54 02 23
Dichromate Reactor, Digestion	Water, waste water, seawater	25 tubes 150 tubes 25 tubes, mercury free	2 42 07 20 2 42 07 25 2 42 07 10
Dichromate Reactor, Digestion	Water, waste water, seawater	25 tubes 150 tubes 25 tubes, mercury free 150 tubes, mercury free	2 42 07 21 2 42 07 26 2 42 07 11 2 42 07 16
Dichromate Reactor, Digestion	Water, waste water, seawater	25 tubes 150 tubes 25 tubes, mercury free	2 42 07 22 2 42 07 27 2 42 07 12
Biquinolin	Water, waste water, seawater	100 1000	53 03 00 53 03 03





Reagents VARIO Powder Packs(PP)and Reagents

(also compatible in Hach® instruments*)

Test	Range	Reagent	Liquid Reagent	Tube Tests	Powder Pack
DEHA	20 - 500 µg/l DEHA	VARIO DEHA REAGENT SET consists of: VARIO OXYSCAV 1 RGT VARIO DEHA.2 RGT			
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			
Iron, total, Fe in Mo	0,01 - 1,8 mg/l	VARIO (Fein Mo) Reagent Set consists of: VARIO (Fein Mo) Rgt 1 VARIO (Fein Mo) Rgt 2			
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 LR	0,5 - 5 mg/l MoO ₄	VARIO MOLYBDENUM LR, Set, F10 consists of: VARIO Molybdenum 1 LR, F20 VARIO Molybdenum 2 LR			
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			
Molybdate HR	0 - 35 mg/l Mo	VARIO MOLYBDENUM HR, Set F25 consists of: VARIO MOLYBDENUM HR1, F25 VARIO MOLYBDENUM HR2, F25 VARIO MOLYBDENUM HR3, F25			
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			
Nitrite LR	0 - 0,3 mg/l N	VARIO NITRI3, F10 VARIO NITRI3, F25			
Nitrogen, total LR	0 - 25 mg/l N	VARIO TOTAL NITROGEN LR, Set consists of: VARIO TOTAL NITROGEN HYDROX. LR, Set VARIO TOTAL NITROGEN HYDROX. LR, tubes VARIO TOTAL N PERSULFATE Reagent, VARIO TOTAL NITROGEN ACID LR, tubes 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
PFST		1 Set 100 100 ml	53 60 00
4-(Dimethylamino)-benzaldehyde	Water, waste water, seawater	100 ml	53 12 00
Iron, total: 1, 10-phenantroline	Water, waste water, seawater	100	53 05 60
Iron, total: TPTZ	Water, waste water, seawater	100	53 05 50
Fein Mo	Water, waste water	1 Set 100 100	53 60 10 53 03 10 53 03 20
PAN	Water, waste water	1 Set 60 ml 100 60 ml	53 50 90
Periodate oxidation	Water, waste water	1 Set 100 100	53 51 00
Mercaptoacetic acid	Water, waste water	1 Set 100 100	53 54 50
Thioglycolic acid	Water, waste water	1 Set 100 100 100	53 53 00
Thioglycolic acid	Water, waste water	1 Set 100 100 100	53 54 00
Chromotropic acid	Water, waste water	1 Set 50 50 100 ml	53 55 80
Diazotiation	Water, waste water	100 100	53 09 80 53 09 70
Persulfate digestion	Water, waste water	1 Set 50 50 50 50 50 100 ml	53 55 50





Reagents VARIO Powder Packs(PP)and Reagents

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Test	Range	Reagent	Liquid Reagent	Tube Tests	Powder Pack
Nitrogen, total HR	5 - 150 mg/l N	VARIO TOTAL NITROGEN HR, Set consists of: VARIO TOTAL NITROGENHYDROX. HR, Set VARIO TOTAL NITROGENHYDROX. HR, tubes VARIO TOTAL N PERSULFATE Reagent, VARIO TOTAL NITROGENACID LR, tubes VARIO TOTAL NITROGEN Reag. A VARIO TOTAL NITROGEN Reag. B VARIO TOTAL NITROGENACID LR/HR tubes Deionised water			
Phosphate	0 - 2,5 mg/l PO ₄	VARIO PHOSPHATERGT, F10			
Phosphate, ortho	0,06 - 5 mg/l PO ₄	VARIO REACTIVE PHOSPHATE REAGENT SET consists of: VARIO PHOSPHATE DILUTION TUBE TEST VARIO PHOSPHATERGT, F10 Deionised water			
Phosphate, Acid hydrolyzable and total	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	VARIO TOTAL & ACID HYDROLYZABLE PHOSPHATE REAGENT SET consists of: VARIO PHOSPHATE ACID REAG. TUBE TEST Deionised water VARIO PHOSPHATERGT, F10 VARIO SODIUM HYDROXID 1N VARIO SODIUM HYDROXID 1,54N VARIO POTASSIUM PERSULFATE			
Phosphate, total	0,02 - 1,1 mg/l P _Δ 0,06 - 3,5 mg/l PO ₄	VARIO TOTAL PHOSPHATE REAGENT SET consists of: VARIO PHOSPHATE ACID REAG. TUBE TEST VARIO PHOSPHATERGT, 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 PHOSPHATERGT, F10			
Silica, LR	0 - 1,6 mg/l SiO ₂	VARIO SILICA Reagent LR, Set F10 consists of: VARIO LRSILICA AMINO ACID F VARIO SILICA CITRIC ACID VARIO MOLYBDATE3 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			
Triazoles	1 - 16 mg/l	VARIO Triazole Rgt F25			

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Method	Applications	Quantity	Code
Persulfate digestion	Water, waste water	1 Set 50 50 50 50 50 100 ml	53 55 60
Phosphomolybdic acid/ Ascorbic acid	Water, waste water, seawater	100	53 15 50
Phosphomolybdic acid/ Ascorbic acid	Water, seawater	1 Set 50 50 100 ml	53 52 00
Phosphomolybdic acid/ Ascorbic acid	Water, seawater	1 Set 50 50 100 ml 100 ml 100 ml 50	53 52 50
Phosphomolybdic acid/ Ascorbic acid	Water, seawater	1 Set 50 50 100 ml 100 ml 50	53 52 10
Persulfate UV-Oxidation	Water	1 Set 100 200	53 52 20
Heteropoly blue	Water, seawater	1 Set 100 200 2 x 50 ml	53 56 90
Silicomolybdate	Water, seawater	1 Set 100 100 100	53 57 00
Silicomolybdate	Water, seawater	1 Set 100 100 100	53 59 00
USEPA accepted for drinking water analysis	Water, waste water, seawater	100 100	53 21 60 53 21 50
Catalyzed UV Digestion	Water	100	53 22 00

