

VISOCOLOR® ECO

Colorimetric and titrimetric test kits

VISOCOLOR® ECO presents a product group of colorimetric and titrimetric test kits, which allow even the determination of low limiting values with sufficient accuracy. The high sensitivity and accuracy is accomplished by single reagents which can be dosed precisely and by the possibility to compensate turbidity and color of water samples.

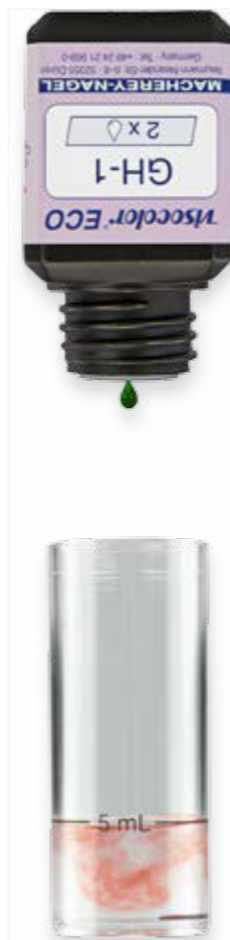
The results are evaluated visually with high-quality color comparison cards, which are adjusted to the original colors of standard solutions. In addition, there is the possibility to evaluate most VISOCOLOR® ECO tests also photometrically with the compact photometers PF-3 and PF-12^{Plus}. This enables a quantitative evaluation of the test kit.

Business-priced refill packs are available for photometric evaluation as well as for replacement of consumed chemicals.

All VISOCOLOR® ECO test kits are delivered in a practical cardboard box with plastic inlay and easy to understand instruction manual. In addition, pictogram instructions are available.

Good to know

Most VISOCOLOR® ECO tests can also be evaluated photometrically on the compact photometers PF-3 and PF-12^{Plus}.



Easy

- Chemical analysis without further accessories
- No extensive training necessary
- Color-coded reagents with clear dosing instructions

Safe

- Pictogram test instructions
- Reaction basis according to international standards
- Compensation of turbidity and color

Unique

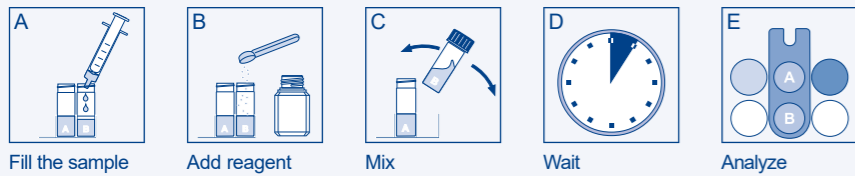
- High quality test kits
- Business-priced refill packs
- Ecologically friendly disposal of used reagents



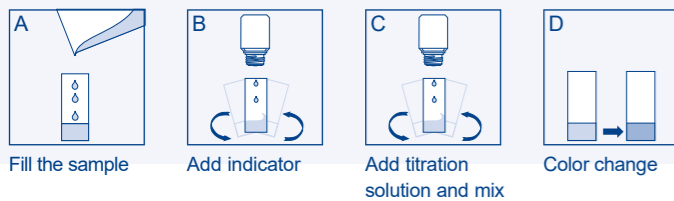
How it's done



Colorimetric



Titrimetric



Product Information

Test	REF	REF refill	Measuring range (visual)	Measuring range (photometric) ¹⁾	Number of tests	Shelf life	Method	PF-12 ^{Plus}	PF-3 Drinking Water	PF-3 Fish	PF-3 Pool	PF-3 Soil	Colorimetric	Titrimetric	Sea water ²⁾	GHS	Test	
■ Alkalinity TA	-	931 204	-	0.4–17.5 °e / 5–250 mg/L CaCO ₃	100	1 year	Bromophenol blue	■	■		■		■				Alkalinity TA	
■ Aluminum	931 006	931 206	0 · 0.10 · 0.15 · 0.20 · 0.25 · 0.30 · 0.40 · 0.50 mg/L Al ³⁺	-	50	2 years	Chromazurol S						■		■			Aluminum
■ Ammonium 3	931 008	931 208	0 · 0.2 · 0.3 · 0.5 · 0.7 · 1 · 2 · 3 mg/L NH ₄ ⁺	0.1–2.5 mg/L NH ₄ ⁺	50	1.5 years	Indophenol	■	■			■	■		■	■		Ammonium 3
■ Ammonium 15	931 010	931 210	0 · 0.5 · 1 · 2 · 3 · 5 · 7 · 10 · 15 mg/L NH ₄ ⁺	0.5–8.0 mg/L NH ₄ ⁺	50	1.5 years	Indophenol	■					■		■	■		Ammonium 15
■ Bromine	-	931 211	-	0.10–13.00 mg/L Br ₂	200	2 years	DPD	■	■		■		■		■			Bromine
■ Calcium	931 012	-	1 drop equals 5 mg/L Ca ²⁺	-	100	1.5 years	Complexometric titration							■	■	■		Calcium
■ Carbonate hardness	931 014	-	1 drop equals 1.25 °e	-	100	2 years	Mixed indicator							■	■	■		Carbonate hardness
■ Chloride	931 018	931 218	1 · 2 · 4 · 7 · 12 · 20 · 40 · 60 mg/L Cl ⁻	1–50 mg/L Cl ⁻	90	1 year	Mercury(II)thiocyanate / Iron(III)nitrate	■					■				■	Chloride
																		Chlorine + pH see Swimming pool

■ Chlorine + pH see Swimming pool

¹⁾ Please see the instruction leaflet.
²⁾ For evaluation with the PF-12/PF-12^{Plus}, a special filter is required.
³⁾ Additionally required with first order: Oxygen sample bottle, REF 915 498.
⁴⁾ Measuring range for photometric evaluation with the PF-12^{Plus}. Range on other photometers can be different.
 GHS: Globally harmonized system: This product contains harmful substances which must be specially labeled as hazardous. For detailed information please see the SDS.

VISOCOLOR® ECO

Visual test kits

Test	REF	REF refill	Measuring range (visual)	Measuring range (photometric) ⁴⁾	Number of tests	Shelf life	Method	PF-12 ^{Plus}	PF-3 Drinking Water	PF-3 Fish	PF-3 Pool	PF-3 Soil	Colorimetric	Titrimetric	Sea water ¹⁾	GHS	Test
Chlorine 1, free + total	931 035	931 235	< 0.1 · 0.1 · 0.2 · 0.3 · 0.4 · 0.6 · 0.9 · 1.2 · 2.0 mg/L Cl ₂	0.05–2.00 mg/L Cl ₂	150	2 years	DPD	■	■		■		■				Chlorine 1, free + total
free Chlorine 2	931 016	931 216	< 0.1 · 0.1 · 0.2 · 0.3 · 0.4 · 0.6 · 0.9 · 1.2 · 2.0 mg/L Cl ₂	0.10–2.00 mg/L Cl ₂	150	1.5 years	DPD	■	■		■		■			■	free Chlorine 2
Chlorine 2, free + total	931 015	931 215	< 0.1 · 0.1 · 0.2 · 0.3 · 0.4 · 0.6 · 0.9 · 1.2 · 2.0 mg/L Cl ₂	0.10–2.00 mg/L Cl ₂	150	1.5 years	DPD	■	■		■		■				Chlorine 2, free + total
free Chlorine 6	–	931 219	–	0.05–6.00 mg/L Cl ₂	400	2 years	DPD	■	■		■		■				free Chlorine 6
Chlorine 6, free + total	–	931 217	–	0.05–6.00 mg/L Cl ₂	200	2 years	DPD	■	■	■	■		■				Chlorine 6, free + total
Chlorine dioxide	931 021	931 221	< 0.2 · 0.2 · 0.4 · 0.6 · 0.8 · 1.1 · 1.7 · 2.3 · 3.8 mg/L ClO ₂	0.20–3.80 mg/L ClO ₂	150	1.5 years	DPD	■	■		■		■				Chlorine dioxide
Chromium(VI)	931 020	931 220	0.02 · 0.05 · 0.10 · 0.15 · 0.20 · 0.30 · 0.40 · 0.50 mg/L Cr(VI)	0.02–0.50 mg/L Cr(VI)	140	1.5 years	Carbazide	■					■			■	Chromium(VI)
Copper	931 037	931 237	0 · 0.1 · 0.2 · 0.3 · 0.5 · 0.7 · 1.0 · 1.5 mg/L Cu ²⁺	0.1–5.0 mg/L Cu ²⁺	100	2 years	Cuprizone	■	■				■				Copper
Cyanide	931 022	931 222	0 · 0.01 · 0.02 · 0.03 · 0.05 · 0.07 · 0.10 · 0.15 · 0.20 mg/L CN ⁻	0.01–0.20 mg/L CN ⁻	100	1 year	Barbituric acid / pyridine	■					■				Cyanide
Cyanuric acid	931 023	931 223	10 · 15 · 20 · 30 · 40 · 60 · 80 · 100 mg/L Cya	10–100 mg/L Cya	100	1.5 years	Triazine (turbidity)	■	■		■		■				Cyanuric acid
DEHA	931 024	931 224	0 · 0.01 · 0.03 · 0.05 · 0.10 · 0.15 · 0.20 · 0.25 · 0.30 mg/L DEHA	–	125	1 year	Redox reaction						■				DEHA
Detergents, anionic	931 050	931 250	0.1 · 0.25 · 0.5 · 1.0 · 2.0 · 5.0 mg/L MBAS	–	50	2 years	Methylene blue						■				Detergents, anionic
Detergents, cationic	931 051	931 251	0 · 1 · 3 · 5 · 10 · 15 · 20 mg/L CTAB	–	50	2 years	Bromphenol blue						■				Detergents, cationic
Fluoride	–	931 227	–	0.1–2.0 mg/L F ⁻	150	1.5 years	SPADNS	■	■		■		■				Fluoride
Hydrazine	931 030	931 230	0 · 0.05 · 0.10 · 0.15 · 0.20 · 0.25 · 0.30 · 0.40 mg/L N ₂ H ₄	0.05–0.40 mg/L N ₂ H ₄	130	1 year	4-Dimethylaminobenzaldehyde	■					■				Hydrazine
Iron 1	931 025	931 225	0 · 0.04 · 0.07 · 0.10 · 0.15 · 0.20 · 0.30 · 0.50 · 1.0 mg/L Fe	0.04–2.00 mg/L Fe	200	2 years	Triazine	■	■	■	■		■				Iron 1
Iron 2	931 026	931 226	0 · 0.04 · 0.07 · 0.10 · 0.15 · 0.20 · 0.30 · 0.50 · 1.0 mg/L Fe	0.04–2.00 mg/L Fe	100	2 years	Triazine	■	■	■	■		■				Iron 2
Manganese	931 038	931 238	0 · 0.1 · 0.2 · 0.3 · 0.5 · 0.7 · 0.9 · 1.2 · 1.5 mg/L Mn	0.1–5.0 mg/L Mn	70	1.5 years	Formaloxime	■					■				Manganese
Nickel	931 040	931 240	0 · 0.1 · 0.2 · 0.3 · 0.5 · 0.7 · 0.9 · 1.2 · 1.5 mg/L Ni ²⁺	0.04–5.00 mg/L Ni ²⁺	150	1.5 years	Dimethylglyoxime	■					■				Nickel
Nitrate	931 041	931 241	0 · 1 · 3 · 5 · 10 · 20 · 30 · 50 · 70 · 90 · 120 mg/L NO ₃ ⁻	4–60 mg/L NO ₃ ⁻	110	1.5 years	Azo dye	■		■		■		■			Nitrate
Nitrite	931 044	931 244	0 · 0.02 · 0.03 · 0.05 · 0.07 · 0.1 · 0.2 · 0.3 · 0.5 · mg/L NO ₂ ⁻	0.02–0.50 mg/L NO ₂ ⁻	120	1.5 years	Sulfanilic acid / 1-naphthylamine	■		■			■				Nitrite
Oxygen ³⁾	931 088	931 288	0 · 1 · 2 · 3 · 4 · 6 · 8 · 10 mg/L O ₂	1–8 mg/L O ₂	50	1 year	Winkler	■		■			■				Oxygen ³⁾
pH 4.0–9.0	931 066	931 266	pH: 4.0 · 5.0 · 6.0 · 6.5 · 7.0 · 7.5 · 8.0 · 8.5 · 9.0	–	450	3 years	Mixed indicator						■				pH 4.0–9.0
pH 6.0–8.2	–	931 270	–	pH 6.1–8.4	150	1.5 years	Mixed indicator	■	■	■	■		■				pH 6.0–8.2
Phosphate	931 084	931 284	0 · 0.2 · 0.3 · 0.5 · 0.7 · 1 · 2 · 3 · 5 mg/L PO ₄ -P	0.2–5.0 mg/L PO ₄ -P	80	3 years	Phosphorous molybdenum blue	■		■			■				Phosphate
Potassium	931 032	931 232	2 · 3 · 4 · 6 · 8 · 10 · 15 mg/L K ⁺	2–25 mg/L K ⁺	60	3 years	Potassium tetraphenyl borate (turbidity)	■					■				Potassium
Silica	931 033	931 233	0 · 0.2 · 0.4 · 0.6 · 1.0 · 1.5 · 2.0 · 2.5 · 3.0 mg/L SiO ₂	0.2–3.0 mg/L SiO ₂	80	3 years	Silicomolybdenum blue	■		■			■				Silica
Silica HR 200	–	931 234	–	10–200 mg/L SiO ₂ ²⁾	100	3 years	Silicomolybdenum blue	■	■		■		■				Silica HR 200
Sulfate	931 092	931 292	25 · 30 · 35 · 40 · 50 · 60 · 70 · 80 · 100 · 120 · 150 · 200 mg/L SO ₄ ²⁻	20–200 mg/L SO ₄ ²⁻	100	3 years	Barium sulfate (turbidity)	■					■				Sulfate
Sulfide	931 094	931 294	0.1 · 0.2 · 0.3 · 0.4 · 0.5 · 0.6 · 0.7 · 0.8 mg/L S ²⁻	0.05–0.80 mg/L S ²⁻	90	3 years	DPD	■					■				Sulfide
Sulfite	931 095	–	1 drop equals 1 mg/L SO ₃ ²⁻	–	60	1 year	Iodometric titration							■			Sulfite
Swimming pool	931 090	931 290	Chlorine: < 0.1 · 0.1 · 0.2 · 0.3 · 0.4 · 0.6 · 0.9 · 1.2 · 2.0 mg/L Cl ₂ pH: 6.9 · 7.2 · 7.4 · 7.6 · 7.8 · 8.2	–	150	1.5 years	DPD Mixed indicator						■				Swimming pool
Total hardness	931 029	–	1 drop equals 1.25 °e	–	110	1.5 years	Complexometric titration							■			Total hardness
Zinc	931 098	931 298	0 · 0.5 · 1 · 2 · 3 mg/L Zn ²⁺	0.1–3.0 mg/L Zn ²⁺	120	1 year	Zincon	■					■				Zinc

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