

MACHEREY-NAGEL

PF-3 Fish and

*VISOCOLOR*<sup>®</sup> · *NANOCOLOR*<sup>®</sup>

Water Analysis



The perfect team for fishing waters

- Compact photometer with intuitive menu guidance
- Tough and water-proof according to IP 68
- Mobile analysis right at the point of interest
- Determination of the most important parameters for fishing waters



**MACHEREY-NAGEL**

[www.mn-net.com](http://www.mn-net.com)

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## Reliable and fast for fishing waters

A regular water monitoring is the precondition for a healthy and productive living space for fishes. To avoid deficits and fish mortality, it is important to determine all relevant parameters and react promptly.

With its three wavelengths, the new compact photometer PF-3 Fish is perfectly suited for the analysis of fishing waters. It can be used right at the point of interest. Together with the proven VISOCOLOR® ECO and NANOCOLOR® tests, the PF-3 Fish is the perfect tool for a fast and reliable statement on the water quality.



## PF-3 Fish benefits at a glance



### Small and compact

- Handy and light weight
- Glass-fiber reinforced housing
- Water proof according to IP 68
- Shock-resistant optics

Ideal for all your analysis needs in the lab and right at the point of interest



### Easy and convenient

- Fully developed menu structure using just 4 buttons
- Optional storage for just one 0-measurement
- Results in different units
- Open cuvette slot

Safe results and convenient operation



### Smart und clever

- Runs on standard or rechargeable batteries
- Free of charge data export software
- Add new tests and parameters anytime
- Power supply and data transfer via USB port

Flexible use and easy data administration

## Technical data compact photometer PF-3 Fish

Type:	LED-Photometer with 3 interference filters
Wavelengths:	660 nm, 450 nm, 530 nm
Wavelength accuracy:	± 2 nm, bandwidth at half transmission 10–12 nm
Measuring modes:	Pre-programmed MN-tests
Cuvette holder:	Tubes 16 mm OD
Memory:	50 results
Display:	Backlit graphic display, 64 x 128 pix, all important data at a glance: result with unit, data, time
Operation:	Self-explanatory menu guidance, foil keypad, test selection via parameter lists
Power supply:	3 AA batteries, rechargeable batteries, USB interface; optional internal accu-pack
Housing:	Water proof, IP 68 certified
Dimension:	170 x 95 x 68 mm

 This device complies with the European Low Voltage Directive and the European EMC Directive.

## Test kit benefits at a glance

### Reliable and accurate

- Highly accurate measurements due to photometric determination with PF-3 Fish
- Simple chemical-analytical methods
- Reaction principles based on internationally acknowledged regulations (DIN, EN, ISO)
- Low susceptibility to interferences assures reliable results

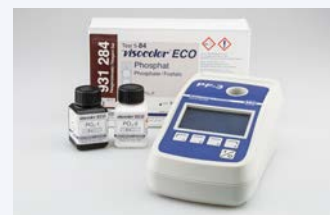
High measurement safety for reliable water analysis



### VISOCOLOR® ECO – Easy and comfortable

- Intuitive instructions with pictograms
- Color-coded reagent bottles with clear dosing instructions
- Fast-dissolving reagents save time
- Cost efficient refill packs available

Convenient handling without the need for time consuming training



### NANOCOLOR® – Precise and versatile

- Ready-to-use reagents for easy and fast measurements
- One tube for both, reaction and measurement
- Contact with dangerous chemicals is avoided
- Ideal for routine analysis

Highest accuracy due to pre-dosed reagents



### Fair and economical

- Individual combination of reagent packages
- Competent customer service by highly educated and experienced professionals
- Free seminars and product information

Consistently fair concept with impressive price-performance ratio



## VISOCOLOR® ECO and NANOCOLOR® tests running on the PF-3 Fish

VISOCOLOR® ECO test	Measurement range	Test number	No. of tests	REF
Ammonium 3*	0.1–2.0 mg/L NH <sub>4</sub> -N	5-08	50	931 208
Chlorine 6 free + total	0.05–6.00 mg/L Cl <sub>2</sub>	5-17	200	931 217
Iron 1*	0.04–2.00 mg/L Fe	5-25	150	931 225
Iron 2	0.04–2.00 mg/L Fe	5-26	150	931 226
Silica*	0.2–3.0 mg/L SiO <sub>2</sub>	5-33	80	931 233
Copper	0.1–5.0 mg/L Cu <sup>2+</sup>	5-37	100	931 237
Nitrate	1.0–14.0 mg/L NO <sub>3</sub> -N	5-41	110	931 241
Nitrite	0.01–0.15 mg/L NO <sub>2</sub> -N	5-44	120	931 244
pH 6.0-8.2	6.10–8.40 pH	5-70	150	931 270
Phosphate*	0.2–5.0 mg/L PO <sub>4</sub> -P	5-84	80	931 284
Oxygen*	1–8 mg/L O <sub>2</sub>	5-88	50	931 288
NANOCOLOR® test	Measurement range	Test number	No. of tests	REF
Ammonium 3*	0.04–2.30 mg/L NH <sub>4</sub> -N	0-03	20	985 003

\* These products contain harmful substances which must be specially labeled as hazardous. For detailed information please see MSDS.

# PF-3 Fish and VISOCOLOR® · NANOCOLOR®

## VISOCOLOR® reagent cases with PF-3 Fish

To provide maximum flexibility, MACHEREY-NAGEL offers flexible case solutions for multiple applications. These mini-labs in rugged cases with premium foam inlays can be equipped in an individual and highly flexible way with different test kits. Catering to our customer needs we also offer a pre-packed reagent case including the PF-3 Fish, all important tests for a complete analysis of fishing waters and accessories.

## Ordering Information

Description	REF
Compact photometer PF-3 Fish, in a cardboard box, incl. manual, batteries and certificate	919 345
Reagent case with compact photometer PF-3 Fish, without reagents, incl. manual, batteries, certificate and accessories	934 602
Reagent case with compact photometer PF-3 Fish, incl. VISOCOLOR® ECO reagents, VISOCOLOR® HE reagents, QUANTOFIX® test strips and manual, batteries, certificate and accessories*	934 127

\* These products contain harmful substances which must be specially labeled as hazardous. For detailed information please see MSDS.

For more information please visit [www.mn-net.com/PF-3](http://www.mn-net.com/PF-3).



REF 934 127

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