

MACHEREY-NAGEL NANOCOLOR® analysis system



NANOCOLOR® analysis system

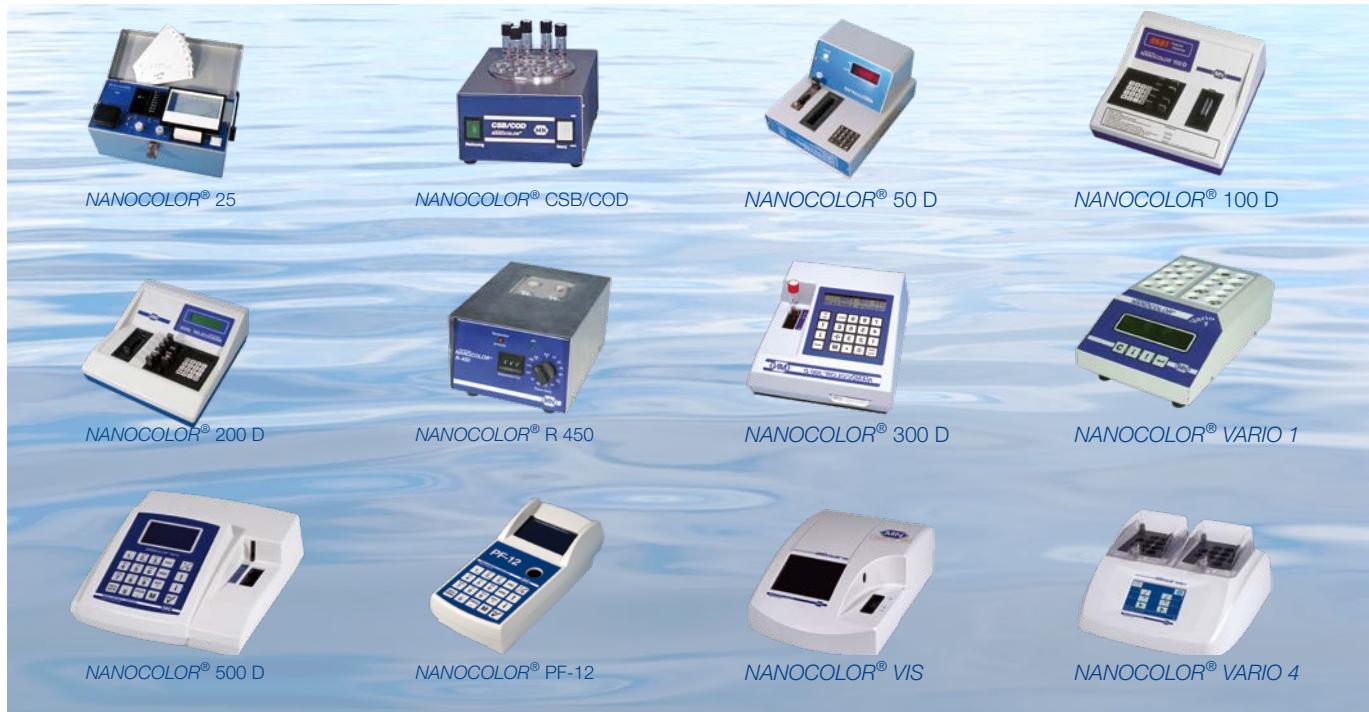
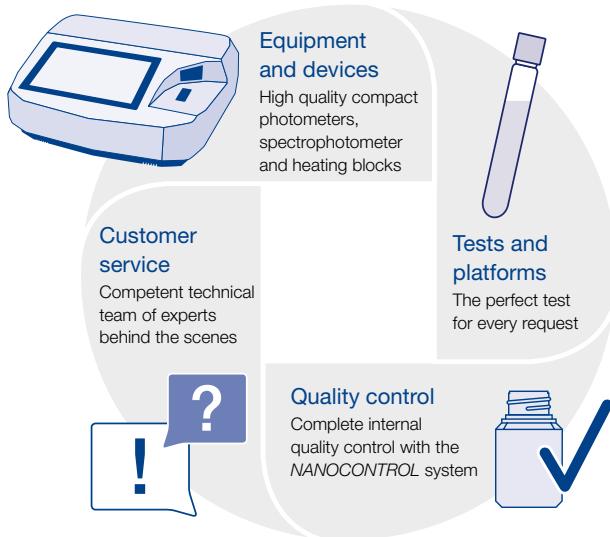
- Expertise
- Continuity
- Passion

NANOCOLOR® analysis system

40 years of expertise, continuity and passion for our customers

For over 40 years, MACHEREY-NAGEL has been developing solutions in the field of photometry. Continuous equipment and software development, extraordinary close customer relations and passion for our work allow us to offer you the NANOCOLOR® system with high reliability and quality.

- ISO-certified production in Germany ensuring highest quality "Made in Germany"
- Consistent quality from batch to batch – no LOT-specific updates required
- SDS, user manuals and LOT-specific certificates
- Intensive Research and Development in the field of Water Analysis to meet future demands and requirements
- One-on-one service by our trained distributors on site and our Customer Service Center in Düren, Germany



NANOCOLOR® analysis system

Test tubes in convenient packaging for safe and easy handling

NANOCOLOR® reagents impress by easy handling and are suited for routine analysis, self-monitoring and process control. 16 mm round tubes with pre-dosed reagents guarantee a maximum safety for the user.

- Rugged boxes with perfect light protection
- Color-coded labels with all important information
- Colored pictograms on package lid for perfect test execution
- Convenient and safe removal of test tubes
- Describable top-label enabling an explicit allocation of test tubes
- Wide test tube openings for easy handling and safe pipetting



NANOCOLOR® analysis system

The perfect COD test for each and every user

For one of the most important parameters for determination of industrial and municipal waste water MACHEREY-NAGEL offers you even 12 different tests and measurement ranges. At the same time our COD tests allow safe handling without any risk from escaping dichromate and mercury gases. Even after the REACH restrictions in 2017, our customers can continue using our NANOCOLOR® COD cuvette tests without limitation.

- 12 measurement ranges for all requirements and demands
- Reaction base according to ISO 6060
- 7 COD tests compliant with ISO 15705
- No zero measurement required
- Audited and certified: no mercury exposure for users
- Mercury-free COD tests available for inflow and outflow measurements

MACHEREY-NAGEL 

Certificate

August 2016

ISO conformity of NANOCOLOR® tube tests

Parameter **REF**

COD 40	985 027
COD 60	985 022
COD LR 150	985 036
COD 160	985 036
COD 600	985 030
COD 1500	985 029
COD HR 1500	985 036

Hereby we confirm that the above mentioned tube tests from MACHEREY-NAGEL, correspond in all points with the DIN ISO 15705

Water quality – Determination of the chemical oxygen demand index (ST-COD) – Small-scale sealed tube method.

MACHEREY-NAGEL DIN ISO 15705

Reagents	Sulfuric acid	Sulfuric acid
Phosphoric dichromate	Phosphoric dichromate	Phosphoric dichromate
Silver sulfate	Silver sulfate	Silver sulfate
Mercury sulfate	Mercury sulfate	Mercury sulfate

Sample volume 2 ml

Temperature 160 °C / 150 °C

Time 2 h

Wavelength for photometric determination

Time	5 - 60 mg/l O ₂	345 ± 20 nm	150 - 160 mg/l O ₂	345 ± 15 nm
5 - 60	mg/l O ₂	345 ± 20 nm	to 50	mg/l O ₂
5 - 150	mg/l O ₂	425 ± 20 nm	to 150	mg/l O ₂
50 - 150	mg/l O ₂	425 ± 20 nm	to 150	mg/l O ₂
50 - 600	mg/l O ₂	605 ± 20 nm	to 1500	mg/l O ₂
100 - 1500	mg/l O ₂	605 ± 20 nm	to 1500	mg/l O ₂
200 - 1500	mg/l O ₂	605 ± 20 nm	to 1500	mg/l O ₂

Digestion Temperature: 160 °C / 150 °C

Time 2 h

Wavelength for photometric determination

Time	5 - 60 mg/l O ₂	345 ± 20 nm	150 - 160 mg/l O ₂	345 ± 15 nm
5 - 60	mg/l O ₂	345 ± 20 nm	to 50	mg/l O ₂
5 - 150	mg/l O ₂	425 ± 20 nm	to 150	mg/l O ₂
50 - 150	mg/l O ₂	425 ± 20 nm	to 150	mg/l O ₂
50 - 600	mg/l O ₂	605 ± 20 nm	to 1500	mg/l O ₂
100 - 1500	mg/l O ₂	605 ± 20 nm	to 1500	mg/l O ₂
200 - 1500	mg/l O ₂	605 ± 20 nm	to 1500	mg/l O ₂

Parameter **REF**

COD 40	985 027
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COD LR 150	985 036
COD 160	985 026
COD 600	985 030
COD 1500	985 029
COD HR 1500	985 038

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ISO conformity of NANOCOLOR® tube tests



NANOCOLOR® analysis system

Time-saving and reliable analysis of total nitrogen

The proven NANOCOLOR® total nitrogen tests are perfectly suited for the reliable determination of total nitrogen in waste water. Beside reproducible results they offer you a very simple and fast handling.

- One single test tube for each digestion
- Less testing steps through prefilled digestion reagents
- No contamination since digestion tubes are never used twice
- No cleaning of digestion tubes required
- Safe results through sufficiently large sample volumes



NANOCOLOR® analysis system

Smart photometry

Spectrophotometers NANOCOLOR® UV/VIS II and VIS II

MACHEREY-NAGEL is revolutionizing your daily laboratory work with the spectrophotometers NANOCOLOR® UV/VIS II and NANOCOLOR® VIS II and combines a superior quality, high-tech electronic device with an outstanding usability. Operate this innovative photometers like your smartphone or tablet and enjoy the intuitive, icon-based operation every day in a new way. Due to the clearly arranged and high-resolution touch screen display, the daily measurement routine will become a pleasure.

- Revolutionary user experience by 10 inch HD touch screen display
- Intuitive and completely icon-based menu guidance
- Integrated turbidity control (NTU-Check) and CIE-conform color measurements
- Completely inbuilt equipment monitoring functions and printing of certificates
- Integrated lamp test and stray light according to Ph.Eur.
- Wavelength-correctness test with integrated Holmium oxide filter



NANOCOLOR® analysis system

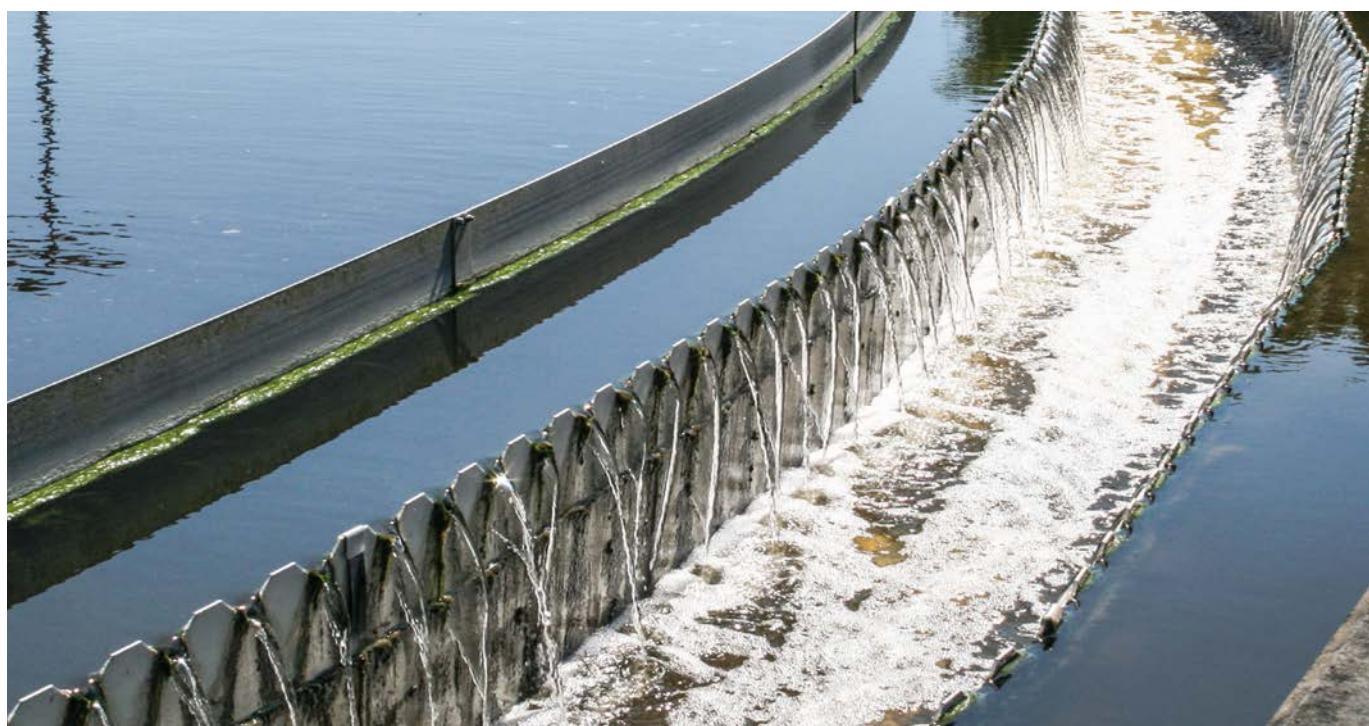
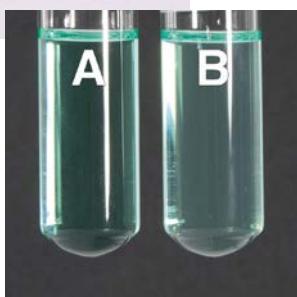
Automatic turbidity check for tube tests

Despite careful working procedures and constant quality control, turbidity is often underestimated as a source of error in photometric water analysis which can lead to significant deviations in measuring values up to 30 %. To increase result safety for users, MACHEREY-NAGEL has integrated a unique turbidity control function (NTU-Check) for tube tests into our spectrophotometers.

- Innovative and unique solution for turbidity problems, warns in case of potential interferences
- Elimination of a frequently underestimated source of errors in the field of photometry
- Turbidity displayed directly in NTU according to EN ISO 7027
- Maximum measurement accuracy
- Outstanding results in COD analysis
- Complete documentation through parallel storage of measurements and NTU values
- Convenient turbidity calibration with NANOCONTROL NANOTURB



2 tubes (A/B) with the same COD concentration

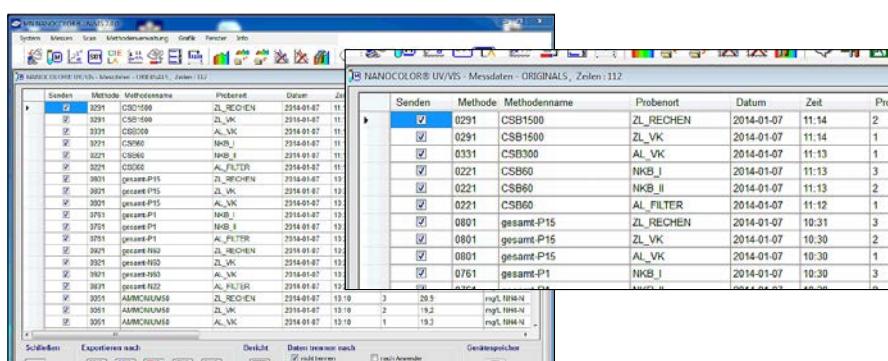


NANOCOLOR® analysis system

Convenient data export to LIMS and other standard PC-programs

In modern laboratories dealing with water and waste water analysis, the combination of the different data sets and test results is getting more and more important. Using the free of charge *NANOCOLOR®* PC software, the data from *NANOCOLOR®* spectrophotometers can be elegantly integrated into various laboratory information systems. This is going to be easier and even more efficient employing novel photometer updates.

- Free of charge PC software with numerous additional features
 - Easy data transfer to Microsoft® Excel
 - Automated compilation of original files for tamper-proof data storage in accordance with FDA 21 CFR Part 11
 - Connection to laboratory information systems (LIS) using tailor-made data configuration tools
 - Efficient documentation of measurement results
 - Fast and easy data management according to GLP

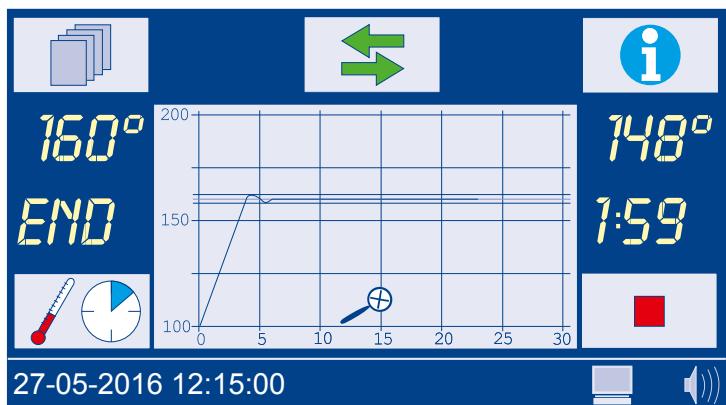


NANOCOLOR® analysis system

Future-proof heating blocks for reliable sample digestion

The NANOCOLOR® heating blocks enable a fast and safe performance of all required digestions. The preprogrammed standard parameter for all routine digestions, e.g., for COD, TOC, total nitrogen, total phosphate and metals help avoid errors.

- 2 separate heating units for parallel rapid digestion of COD, total nitrogen and total phosphate
- Touch screen with intuitive menu navigation for easy handling
- Lockable protective lids and safety covers for maximum protection
- USB interface for future-proof PC connection
- Graphical monitoring of heating curves
- Extremely short heating times translate into time savings for the user
- High temperature stability for consistent digestion conditions



NANOCOLOR® analysis system

NANOCOLOR® USB T-Set and T-Set

Automatic heating block control and calibration

The unique NANOCOLOR® T-Set is an electronic temperature sensor for temperature control and fully automatic calibration of the heating blocks. The user can check the heating blocks independently with the NANOCOLOR® T-Set for internal quality control purposes.

- Calibrated temperature sensors made to monitor digestion temperatures
- Easy monitoring of temperature stability through external recordings of heating curves
- NANOCOLOR® T-Set also suitable as a universal thermometer for external temperature measurements
- Convenient data transfer via USB interface
- GLP conform documentation with automatically generated inspection reports

MACHEREY-NAGEL		<MN>	
Zertifikat/Certificate		Filtration · Rapid Tests · Water Analysis · Chromatography · Bioanalysis Pharmaceutical · Substrates · Metabolites · Chromatographic · Bioanalytical	
FILTRATION · RAPID TESTS · WATER ANALYSIS · CHROMATOGRAPHY · BIOANALYSIS			
Pharmaceutical · Substrates · Metabolites · Chromatographic · Bioanalytical			
Zertifikat / Certificate			
VARIO compact / compact 2 / HC – Testdaten / test data			
Gesamtseriennummer / serial number:			
Software Version / software version:			
Hersteller Kalibrierung / factory calibration			
Steigung / slope [°C/C]			
Abschnittsabschnitt / intercept [°C/C]			
Anwendertest / user test [°C]			
Soll-Temperatur Nominal temperature		Ist-Temperatur Actual temperature	
70		70.4	
100		100.7	
120		120.9	
148		148.8	
160		160.6	
40		39.7	
78		78.5	
157		-	
		157.6	
		-	
		-	
		-	
		23.09.2014	
Testdatum / date of test:			
T-Set Daten / data of T-Set: Kalibrierungsdatum / date of calibration: T-Set Nummer / T-Set number: Zertifikatsnummer / certificate number: Kommentar / notes: Zertifikat NANOCOLOR VARIO C2 mit zusätzlich programmierten Temperaturen 40°C, 70°C, 157°C für eigene sonderanforderungen			
Anwender / user:		Druckdatum / printing date:	
28.09.2014			
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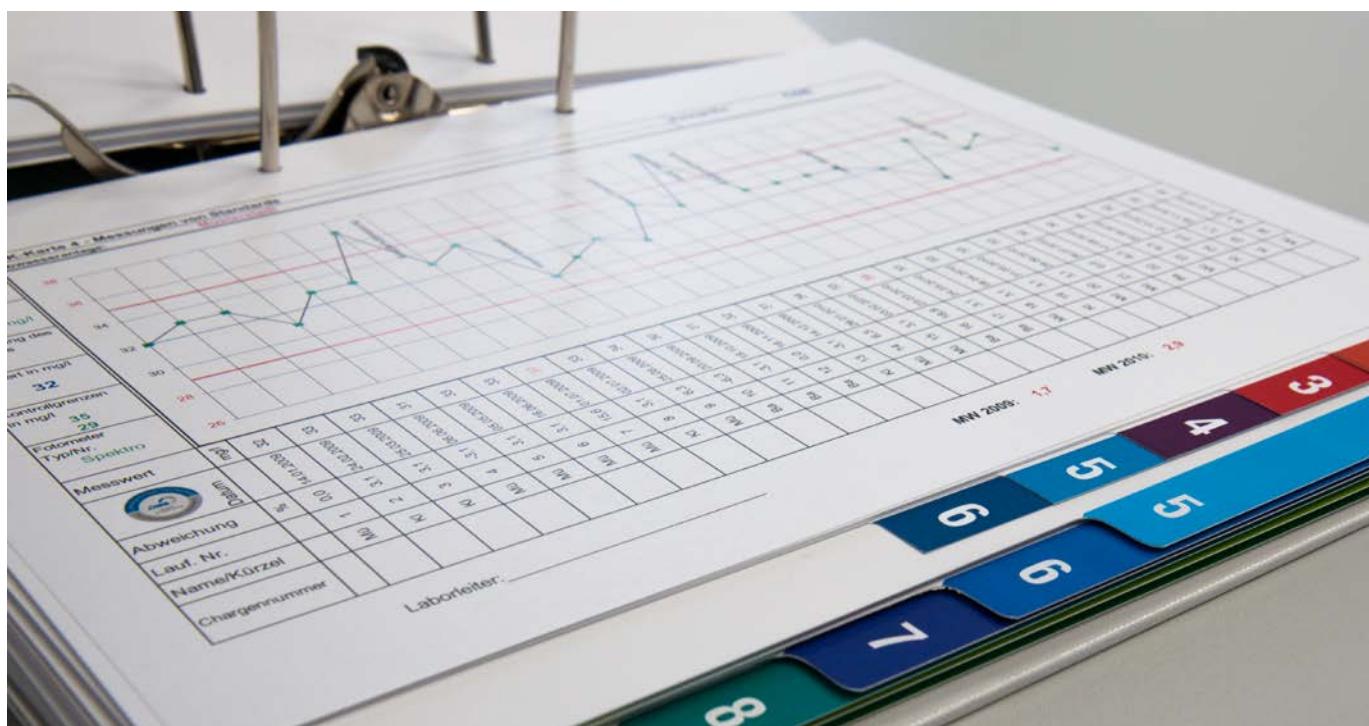


NANOCOLOR® analysis system

Quality control for photometric water analysis

With the *NANOCONTROL* system MACHEREY-NAGEL offers you a complete range of products for analytical quality control for all analyses carried out with our NANOCOLOR® system. It gives you options to check all NANOCOLOR® reagents and test kits, photometers, heating blocks and your personal handling and work flow, thus providing 360 degree feedback on your analytical work.

- Measurement of single and multi standards with *NANOCONTROL*
- Plausibility checks with *NANOCONTROL* addition solutions
- Heating block inspection with the NANOCOLOR® T-Set
- Photometer inspection with the *NANOCONTROL* NANOCHECK
- Convenient turbidity calibration with *NANOCONTROL* NANOTURB



NANOCOLOR® analysis system

NANOCOLOR® photometers – At a glance

NANOCOLOR® UV/VIS II

- High precision spectrophotometer with outstanding usability
- Nephelometric stray light measurement from 0.1–1000 NTU
- Integrated f.o.c. inspection equipment monitoring

REF 919600



NANOCOLOR® VIS II

- Revolutionary user experience by 10 inch HD touch screen display
- Integrated turbidity measurement (NTU-Check)
- Internal quality control functions

REF 919650



NANOCOLOR® 500 D

- Fastest digital photometer on the market
- Shock proof according to German military standard
- Inbuilt battery

REF 919500



Compact photometer PF-12^{Plus}

- Flexible filter photometer with more than 100 preprogrammed methods
- Nephelometric turbidity measurements
- Integrated turbidity control (NTU-Check)

REF 919250



Compact photometer PF-3

- Lightweight and robust by very compact dimensions
- Intuitive operation using just 4 buttons
- Different versions for different applications available

PF-3 Pool REF 934102

PF-3 Drinking Water REF 934402

PF-3 Soil REF 934202

PF-3 COD REF 934302

PF-3 Fish REF 934602



NANOCOLOR® analysis system

NANOCOLOR® heating blocks – At a glance

NANOCOLOR® VARIO 4

- Simultaneous digestion of 24 samples
- Two independently usable heating units
- The most flexible solution

REF 919300



NANOCOLOR® VARIO C2

- Simultaneous digestion of 12 samples
- The ideal choice for small sample amounts
- Cost-effective quality

REF 919350



NANOCOLOR® VARIO C2 M

- Simultaneous digestion of 10 samples
- Heating block for metall analysis with big bores
- Digestion of big and small reaction glasses

REF 919350.1



NANOCOLOR® VARIO HC

- Simultaneous digestion of 12 samples
- Active rapid cooling after digestion
- Heating unit with aerator

REF 919330



NANOCOLOR® VARIO Mini

- Simultaneous digestion of 6 samples
- The ideal choice for mobile digestions
- Flexible power supply

REF 919380



NANOCOLOR® analysis system

NANOCOLOR® tube tests - At a glance



Test	Measuring range	REF	
Aluminum 07	0.02–0.70 mg/L Al ³⁺	985098	
Ammonium 3	0.04–2.30 mg/L NH ₄ -N	985003	
Ammonium 10	0.2–8.0 mg/L NH ₄ -N	985004	
Ammonium 50	1–40 mg/L NH ₄ -N	985005	
Ammonium 100	4–80 mg/L NH ₄ -N	985008	
Ammonium 200	30–160 mg/L NH ₄ -N	985006	
Ammonium 2000	300–1600 mg/L NH ₄ -N 400–2000 mg/L NH ₄ ⁺	985002	
AOX 3	0.1–3.0 mg/L AOX	985007	
BOD ₅ (in Winkler bottles)	2–3000 mg/L O ₂	985822	
BOD ₅ -TT	0.5–3000 mg/L O ₂	985825	
Cadmium 2	0.05–2.00 mg/L Cd ²⁺	985014	
Carbonate hardness 15	1.25–18.75 °e	985015	
Chloride 200	5–200 mg/L Cl ⁻	985019	
Chloride 50	0.5–50.0 mg/L Cl ⁻	985021	
Chlorine / Ozone 2	0.05–2.50 mg/L Cl ₂	985017	
Chlorine dioxide 5	0.15–5.00 mg/L ClO ₂	985018	
Chromate 5	0.05–2.00 mg/L Cr(VI) 0.005–0.500 mg/L Cr(VI)	985024	
Total Chromium 2	0.05–2.00 mg/L Cr 0.005–0.500 mg/L Cr(VI)	985059	
COD 40	2–40 mg/L O ₂	985027	
COD 60	5–60 mg/L O ₂	985022	
COD 160	15–160 mg/L O ₂	985026	
COD 160 Hg-free	15–160 mg/L O ₂	963026	
COD 300	50–300 mg/L O ₂	985033	
COD 600	50–600 mg/L O ₂	985030	
COD 1500	100–1500 mg/L O ₂	985029	
COD 1500 Hg-free	100–1500 mg/L O ₂	963029	
COD 4000	400–4000 mg/L O ₂	985011	
COD 10000	1.00–10.00 g/L O ₂	985023	
COD 15000	1.0–15.0 g/L O ₂	985028	
COD 60000	5.0–60.0 g/L O ₂	985012	
COD LR 150	3–150 mg/L O ₂	985036	
COD HR 1500	20–1500 mg/L O ₂	985038	
org. Complexing agents 10	0.5–10.0 mg/L I _{BIK}	985052	
Copper 5	0.10–7.00 mg/L Cu ²⁺	985053	
Cyanide 08	0.02–0.80 mg/L CN ⁻ 0.005–0.100 mg/L CN ⁻	985031	
DEHA 1 (Diethylhydroxylamine)	0.05–1.00 mg/L DEHA	985035	
Ethanol 1000	0.10–1.00 g/L EtOH	0.013–0.130 Vol. % EtOH	985838
Fluoride 2	0.1–2.0 mg/L F ⁻	985040	
Formaldehyde 8	0.1–8.0 mg/L HCHO	985041	
Formaldehyde 10	0.20–10.00 mg/L HCHO	985046	
Hardness Ca/Mg	1.25–25.0 °e 0.2–3.6 mmol/L	5–50 mg/L Mg ²⁺ 10–100 mg/L Ca ²⁺	985044
Hardness 20	1.25–25.0 °e 0.2–3.6 mmol/L	5–50 mg/L Mg ²⁺ 10–100 mg/L Ca ²⁺	985043
HC 300 (Hydrocarbons)	0.5–5.6 mg/L KW	30–300 mg/kg KW	985057
Iron 3	0.10–3.00 mg/L Fe	985037	
Lead 5	0.10–5.00 mg/L Pb ²⁺	985009	

NANOCOLOR® analysis system

Test	Measuring range	REF	
Manganese 10	0.1–10.0 mg/L Mn	985058	
Methanol 15	0.2–15.0 mg/L MeOH	985859	
Molybdenum 40	1.0–40.0 mg/L Mo(VI)	1.6–65.0 mg/L MoO ₄ ²⁻	985056
Nickel 4	0.10–7.00 mg/L Ni ²⁺	985071	
Nitrate 8	0.30–8.00 mg/L NO ₃ -N	1.3–35.0 mg/L NO ₃ ⁻	985065
Nitrate 50	0.3–22.0 mg/L NO ₃ -N	2–100 mg/L NO ₃ ⁻	985064
Nitrate 250	4–60 mg/L NO ₃ -N	20–250 mg/L NO ₃ ⁻	985066
Nitrite 2	0.003–0.460 mg/L NO ₂ -N	0.02–1.50 mg/L NO ₂ ⁻	985068
Nitrite 4	0.1–4.0 mg/L NO ₂ -N	0.3–13.0 mg/L NO ₂ ⁻	985069
total Nitrogen TN _b 22	0.5–22.0 mg/L N	985083	
total Nitrogen TN _b 60	3–60 mg/L N	985092	
total Nitrogen TN _b 220	5–220 mg/L N	985088	
total Kjeldahl Nitrogen TKN 16	1.0–16 mg/L TKN	985067	
Organic acids 3000	30–3000 mg/L CH ₃ COOH	0.5–50.0 mmol/L CH ₃ COOH	985050
Oxygen 12	0.5–12.0 mg/L O ₂	985082	
Peroxide 2	0.03–2.00 mg/L H ₂ O ₂	985871	
pH 6.5–8.2	pH 6.5–8.2	91872	
Phenolic Index 5	0.2–5.0 mg/L Phenol	985074	
ortho- and total Phosphate 1	0.05–1.50 mg/L P 0.010–0.800 mg/L P	0.2–5.0 mg/L PO ₄ ³⁻ 0.03–2.50 mg/L PO ₄ ³⁻	985076
ortho- and total Phosphate 5	0.20–5.00 mg/L P	0.5–15.0 mg/L PO ₄ ³⁻	985081
ortho- and total Phosphate 15	0.30–15.00 mg/L P	1.0–45.0 mg/L PO ₄ ³⁻	985080
ortho- and total Phosphate 45	5.0–50.0 mg/L P	15–150 mg/L PO ₄ ³⁻	985055
ortho- and total Phosphate 50	10.0–50.0 mg/L P	30–150 mg/L PO ₄ ³⁻	985079
ortho- and total Phosphate LR 1	0.05–0.50 mg/L P	0.2–1.5 mg/L PO ₄ ³⁻	985095
POC 200	20–200 mg/L POC	2–40 mg/L KWI	985070
Potassium 50	2–50 mg/L K ⁺	985045	
Residual hardness 1	0.03–1.25 °e	0.004–0.180 mmol/L	985084
Silver 3	0.20–3.00 mg/L Ag ⁺	0.08–0.50 mg/L Ag ⁺	985049
Starch 100	5–100 mg/L starch	985085	
Sulfate 200	10–200 mg/L SO ₄ ²⁻	985086	
Sulfate 1000	200–1000 mg/L SO ₄ ²⁻	985087	
Sulfate LR 200	20–200 mg/L SO ₄ ²⁻	985062	
Sulfide 3	0.05–3.00 mg/L S ²⁻	985073	
Sulfite 10	0.2–10.0 mg/L SO ₃ ²⁻	0.05–2.40 mg/L SO ₃ ²⁻	985089
Sulfite 100	5–100 mg/L SO ₃ ²⁻	985090	
Anionic Surfactants 4	0.20–4.00 mg/L MBAS	0.20–3.500 mg/L SDS	985032
Cationic Surfactants 4	0.20–4.00 mg/L CTAB	985034	
Nonionic Surfactants 15	0.3–15.0 mg/L Triton® X-100	985047	
Thiocyanate 50	0.5–50.0 mg/L SCN ⁻	985091	
Tin 3	0.10–3.00 mg/L Sn	985 097	
TOC 30	2.0–30.0 mg/L C	985075	
TOC 300	20–300 mg/L C	985078	
TOC 25	2.0–25.0 mg/L C	985093	
TOC 60	10–60 mg/L C	985094	
TOC 600	40–600 mg/L C	985099	
TTC / Sludge activity 150	5–150 µg TPF	0.050–2.300 E	985890
Zinc 4	0.10–4.00 mg/L Zn ²⁺	985096	
Zinc 6	0.20–6.00 mg/L Zn ²⁺	985042	
Zirconium 100	5–100 mg/L Zr	985001	

NANOCOLOR® Analysensystem



NANOCOLOR® standard tests – At a glance

Test	Measuring range	REF	
Aluminum	0.01–1.00 mg/L Al ³⁺	91802	
Ammonium	0.01–2.0 mg/L NH ₄ ⁺	91805	
Cadmium	0.002–0.50 mg/L Cd ²⁺	918131	
Chloride	0.2–125 mg/L Cl ⁻	91820	
Chlorine	0.02–10.0 mg/L Cl ₂	91816	
Chlorine dioxide	0.04–4.00 mg/L ClO ₂	918163	
Chromate	0.01–3.0 mg/L Cr(VI)	0.01–6.0 mg/L CrO ₄ ²⁻	91825
Cobalt	0.002–0.70 mg/L Co ²⁺	91851	
Color (Hazen/DIN)	5–500 mg/L Pt (Hazen)	0.2–20.0 1/m	Test 1-39
Copper	0.01–10.0 mg/L Cu ²⁺	91853	
Cyanide	0.001–0.50 mg/L CN ⁻	91830	
Detergents, anionic	0.02–5.0 mg/L MBAS	91832	
Detergents, cationic	0.05–5.0 mg/L CTAB	91834	
Fluoride	0.05–2.00 mg/L F ⁻	918142	
Hydrazine	0.002–1.50 mg/L N ₂ H ₄	91844	
Iron	0.01–15.0 mg/L Fe	91836	
Lead	0.005–1.00 mg/L Pb ²⁺	918101	
Manganese	0.01–10.0 mg/L Mn	91860	
Nickel	0.01–10.0 mg/L Ni ²⁺	91862	
Nitrate	0.1–30.0 mg/L NO ₃ -N	0.5–140 mg/L NO ₃ ⁻	91865
Nitrate Z	0.02–1.0 mg/L NO ₃ -N	0.1–5.0 mg/L NO ₃ ⁻	91863
Nitrite	0.002–0.30 mg/L NO ₂ -N	0.005–1.00 mg/L NO ₂ ⁻	91867
Ozone	0.01–1.50 mg/L O ₃	91885	
Phenol	0.01–7.0 mg/L Phenol	91875	
ortho-Phosphate	0.04–6.5 mg/L PO ₄ -P	0.1–20.0 mg/L PO ₄ ³⁻	91877
ortho-Phosphate	0.2–17 mg/L PO ₄ -P	0.5–50 mg/L PO ₄ ³⁻	91878
SAC	0.1–150.0 1/m	Test 3-01	
Silica	0.01–10.00 mg/L Si 0.002–0.100 mg/L Si	0.02–10.0 mg/L SiO ₂ 0.005–0.200 mg/L SiO ₂	91848
Sulfide	0.01–3.0 mg/L S ²⁻	91888	
Turbidity (Formazine/DIN)	1–100 TE/F (= FAU)	0.5–40.0 1/m	Test 1-92
Turbidity	1–1000 NTU	Test 9-06	
Zinc	0.02–3.0 mg/L Zn ²⁺	91895	

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