

## NANOCOLOR® tube tests - At a glance



Test	Measuring range	REF	
Aluminum 07	0.02–0.70 mg/L Al <sup>3+</sup>	985098	
Ammonium 3	0.04–2.30 mg/L NH <sub>4</sub> -N	0.05–3.00 mg/L NH <sub>4</sub> <sup>+</sup>	985003
Ammonium 10	0.2–8.0 mg/L NH <sub>4</sub> -N	0.2–10.0 mg/L NH <sub>4</sub> <sup>+</sup>	985004
Ammonium 50	1–40 mg/L NH <sub>4</sub> -N	1–50 mg/L NH <sub>4</sub> <sup>+</sup>	985005
Ammonium 100	4–80 mg/L NH <sub>4</sub> -N	5–100 mg/L NH <sub>4</sub> <sup>+</sup>	985008
Ammonium 200	30–160 mg/L NH <sub>4</sub> -N	40–200 mg/L NH <sub>4</sub> <sup>+</sup>	985006
Ammonium 2000	300–1600 mg/L NH <sub>4</sub> -N 400–2000 mg/L NH <sub>4</sub> <sup>+</sup>	400–2000 mg/L NH <sub>4</sub> <sup>+</sup>	985002
AOX 3	0.1–3.0 mg/L AOX	0.01–0.30 mg/L AOX	985007
BOD <sub>5</sub> (in Winkler bottles)	2–3000 mg/L O <sub>2</sub>		985822
BOD <sub>5</sub> -TT	0.5–3000 mg/L O <sub>2</sub>		985825
Cadmium 2	0.05–2.00 mg/L Cd <sup>2+</sup>		985014
Carbonate hardness 15	1.25–18.75 °e	0.4–5.4 mmol/L H <sup>+</sup>	985015
Chloride 200	5–200 mg/L Cl <sup>-</sup>		985019
Chloride 50	0.5–50.0 mg/L Cl <sup>-</sup>	0.10–1.00 g/L Cl <sup>-</sup>	985021
Chlorine / Ozone 2	0.05–2.50 mg/L Cl <sub>2</sub>	0.05–2.00 mg/L O <sub>3</sub>	985017
Chlorine dioxid 5	0.15–5.00 mg/L ClO <sub>2</sub>		985018
Chromate 5	0.05–2.00 mg/L Cr(VI) 0.005–0.500 mg/L Cr(VI)	0.1–4.0 mg/L CrO <sub>4</sub> <sup>2-</sup> 0.01–1.00 mg/L CrO <sub>4</sub> <sup>2-</sup>	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 <sub>2</sub>		985027
COD 60	5–60 mg/L O <sub>2</sub>		985022
COD 160	15–160 mg/L O <sub>2</sub>		985026
COD 160 Hg-free	15–160 mg/L O <sub>2</sub>		963026
COD 300	50–300 mg/L O <sub>2</sub>		985033
COD 600	50–600 mg/L O <sub>2</sub>		985030
COD 1500	100–1500 mg/L O <sub>2</sub>		985029
COD 1500 Hg-free	100–1500 mg/L O <sub>2</sub>		963029
COD 4000	400–4000 mg/L O <sub>2</sub>		985011
COD 10000	1.00–10.00 g/L O <sub>2</sub>		985023
COD 15000	1.0–15.0 g/L O <sub>2</sub>		985028
COD 60000	5.0–60.0 g/L O <sub>2</sub>		985012
COD LR 150	3–150 mg/L O <sub>2</sub>		985036
COD HR 1500	20–1500 mg/L O <sub>2</sub>		985038
org. Complexing agents 10	0.5–10.0 mg/L I <sub>BIK</sub>		985052
Copper 5	0.10–7.00 mg/L Cu <sup>2+</sup>		985053
Cyanide 08	0.02–0.80 mg/L CN <sup>-</sup> 0.005–0.100 mg/L CN <sup>-</sup>		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 <sup>-</sup>		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 <sup>2+</sup> 10–100 mg/L Ca <sup>2+</sup>	985044
Hardness 20	1.25–25.0 °e 0.2–3.6 mmol/L	5–50 mg/L Mg <sup>2+</sup> 10–100 mg/L Ca <sup>2+</sup>	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 <sup>2+</sup>		985009

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 <sub>4</sub> <sup>2-</sup>	985056
Nickel 4	0.10–7.00 mg/L Ni <sup>2+</sup>	985071	
Nitrate 8	0.30–8.00 mg/L NO <sub>3</sub> -N	1.3–35.0 mg/L NO <sub>3</sub> <sup>-</sup>	985065
Nitrate 50	0.3–22.0 mg/L NO <sub>3</sub> -N	2–100 mg/L NO <sub>3</sub> <sup>-</sup>	985064
Nitrate 250	4–60 mg/L NO <sub>3</sub> -N	20–250 mg/L NO <sub>3</sub> <sup>-</sup>	985066
Nitrite 2	0.003–0.460 mg/L NO <sub>2</sub> -N	0.02–1.50 mg/L NO <sub>2</sub> <sup>-</sup>	985068
Nitrite 4	0.1–4.0 mg/L NO <sub>2</sub> -N	0.3–13.0 mg/L NO <sub>2</sub> <sup>-</sup>	985069
total Nitrogen TN <sub>b</sub> 22	0.5–22.0 mg/L N	985083	
total Nitrogen TN <sub>b</sub> 60	3–60 mg/L N	985092	
total Nitrogen TN <sub>b</sub> 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 <sub>3</sub> COOH	0.5–50.0 mmol/L CH <sub>3</sub> COOH	985050
Oxygen 12	0.5–12.0 mg/L O <sub>2</sub>	985082	
Peroxide 2	0.03–2.00 mg/L H <sub>2</sub> O <sub>2</sub>	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 <sub>4</sub> <sup>3-</sup> 0.03–2.50 mg/L PO <sub>4</sub> <sup>3-</sup>	985076
ortho- and total Phosphate 5	0.20–5.00 mg/L P	0.5–15.0 mg/L PO <sub>4</sub> <sup>3-</sup>	985081
ortho- and total Phosphate 15	0.30–15.00 mg/L P	1.0–45.0 mg/L PO <sub>4</sub> <sup>3-</sup>	985080
ortho- and total Phosphate 45	5.0–50.0 mg/L P	15–150 mg/L PO <sub>4</sub> <sup>3-</sup>	985055
ortho- and total Phosphate 50	10.0–50.0 mg/L P	30–150 mg/L PO <sub>4</sub> <sup>3-</sup>	985079
ortho- and total Phosphate LR 1	0.05–0.50 mg/L P	0.2–1.5 mg/L PO <sub>4</sub> <sup>3-</sup>	985095
POC 200	20–200 mg/L POC	2–40 mg/L KWI	985070
Potassium 50	2–50 mg/L K <sup>+</sup>	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 <sup>+</sup>	0.08–0.50 mg/L Ag <sup>+</sup>	985049
Starch 100	5–100 mg/L starch	985085	
Sulfate 200	10–200 mg/L SO <sub>4</sub> <sup>2-</sup>	985086	
Sulfate 1000	200–1000 mg/L SO <sub>4</sub> <sup>2-</sup>	985087	
Sulfate LR 200	20–200 mg/L SO <sub>4</sub> <sup>2-</sup>	985062	
Sulfide 3	0.05–3.00 mg/L S <sup>2-</sup>	985073	
Sulfite 10	0.2–10.0 mg/L SO <sub>3</sub> <sup>2-</sup>	0.05–2.40 mg/L SO <sub>3</sub> <sup>2-</sup>	985089
Sulfite 100	5–100 mg/L SO <sub>3</sub> <sup>2-</sup>	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 <sup>®</sup> X-100	985047	
Thiocyanate 50	0.5–50.0 mg/L SCN <sup>-</sup>	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 <sup>2+</sup>	985096	
Zinc 6	0.20–6.00 mg/L Zn <sup>2+</sup>	985042	
Zirconium 100	5–100 mg/L Zr	985001	



## NANOCOLOR® standard tests – At a glance

Test	Measuring range	REF	
Aluminum	0.01–1.00 mg/L Al <sup>3+</sup>	91802	
Ammonium	0.01–2.0 mg/L NH <sub>4</sub> -N	0.01–2.5 mg/L NH <sub>4</sub> <sup>+</sup>	91805
Cadmium	0.002–0.50 mg/L Cd <sup>2+</sup>	918131	
Chloride	0.2–125 mg/L Cl <sup>-</sup>	91820	
Chlorine	0.02–10.0 mg/L Cl <sub>2</sub>	91816	
Chlorine dioxide	0.04–4.00 mg/L ClO <sub>2</sub>	918163	
Chromate	0.01–3.0 mg/L Cr(VI)	0.01–6.0 mg/L CrO <sub>4</sub> <sup>2-</sup>	91825
Cobalt	0.002–0.70 mg/L Co <sup>2+</sup>	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 <sup>2+</sup>	91853	
Cyanide	0.001–0.50 mg/L CN <sup>-</sup>	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 <sup>-</sup>	918142	
Hydrazine	0.002–1.50 mg/L N <sub>2</sub> H <sub>4</sub>	91844	
Iron	0.01–15.0 mg/L Fe	91836	
Lead	0.005–1.00 mg/L Pb <sup>2+</sup>	918101	
Manganese	0.01–10.0 mg/L Mn	91860	
Nickel	0.01–10.0 mg/L Ni <sup>2+</sup>	91862	
Nitrate	0.1–30.0 mg/L NO <sub>3</sub> -N	0.5–140 mg/L NO <sub>3</sub> <sup>-</sup>	91865
Nitrate Z	0.02–1.0 mg/L NO <sub>3</sub> -N	0.1–5.0 mg/L NO <sub>3</sub> <sup>-</sup>	91863
Nitrite	0.002–0.30 mg/L NO <sub>2</sub> -N	0.005–1.00 mg/L NO <sub>2</sub> <sup>-</sup>	91867
Ozone	0.01–1.50 mg/L O <sub>3</sub>	91885	
Phenol	0.01–7.0 mg/L Phenol	91875	
ortho-Phosphate	0.04–6.5 mg/L PO <sub>4</sub> -P	0.1–20.0 mg/L PO <sub>4</sub> <sup>3-</sup>	91877
ortho-Phosphate	0.2–17 mg/L PO <sub>4</sub> -P	0.5–50 mg/L PO <sub>4</sub> <sup>3-</sup>	91878
SAC	0.1–150.0 1/m	Test 3-01	
Silica	0.01–10.00 mg/L Si	0.02–10.0 mg/L SiO <sub>2</sub>	91848
	0.002–0.100 mg/L Si	0.005–0.200 mg/L SiO <sub>2</sub>	
Sulfide	0.01–3.0 mg/L S <sup>2-</sup>	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 <sup>2+</sup>	91895	

### Contact:

Technical support and customer service

Telephone: +49 24 21 969-332

E-mail: [csc@mn-net.com](mailto:csc@mn-net.com)

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

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

## MACHEREY-NAGEL



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6–8 · 52355 Düren · Germany

DE / International:

Tel.: +49 24 21 969-0

Fax: +49 24 21 969-199

E-mail: [info@mn-net.com](mailto:info@mn-net.com)

CH:

Tel.: +41 62 388 55 00

Fax: +41 62 388 55 05

E-mail: [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)

FR:

Tel.: +33 388 68 22 68

Fax: +33 388 51 76 88

E-mail: [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)

