Compact photometer PF-12

The right test for any application

Test	Ranges	Test no	Wave-length	No of tests	Shelf life (months)	Seawater	REF
VISOCOLOR® ECO							
Ammonium 3	0.1 – 2.5 mg/l NH_4^+	5-08	690	50	18	1+9	**931 208**
Ammonium 15	0.5 – 8.0 mg/l NH_4^+	5-10	585	50	18	1+9	**931 210**
Chloride	1 – 60 mg/l Cl^-	5-18	470	90	12	no	**931 218**
Chlorine 2, free + total	0.10 – 2.00 mg/l Cl_2	5-15	540	150	18	yes	**931 215**
free Chlorine 2	0.10 – 2.00 mg/l Cl_2	5-16	540	150	18	yes	**931 216**
Chlorine 6, free + total	0.05 – 6.00 mg/l Cl_2	5-17	540	200	24	yes	**931 217**
free Chlorine 6	0.05 – 6.00 mg/l Cl_2	5-19	540	400	24	yes	**931 219**
Chromium(VI)	0.04 – 1.00 CrO_4^{2-}	5-20	540	140	18	yes	**931 220**
Copper	0.1 – 5.0 mg/l Cu^{2+}	5-37	585	100	24	yes	**931 237**
Cyanide	0.01 – 0.20 mg/l CN^-	5-22	585	100	12	1+3	**931 222**
Cyanuric acid	10 – 100 mg/l Cya	5-23	540	100	18	yes	**931 223**
Fluoride	0.1 – 2.0 mg/l F^-	5-27	585	150	18	yes, after distillation	**931 227**
Hydrazine	0.05 – 0.40 mg/l N_2H_4	5-30	436	130	12	yes	**931 230**
Iron	0.04 – 2.00 mg/l Fe	5-26	540	100	24	yes	**931 226**
Manganese	0.1 – 5.0 mg/l Mn^{2+}	5-38	436	70	18	yes	**931 238**
Nickel	0.1 – 5.0 mg/l Ni^{2+}	5-40	470	150	18	1+9	**931 240**
Nitrate	1 – 80 mg/l NO_3^-	5-41	436	110	18	yes	**931 241**
Nitrite	0.02 – 0.50 mg/l NO_2^-	5-44	540	120	18	yes	**931 244**
Oxygen	1 – 8 mg/l O_2	5-88	540	50	12	yes	**931 288**
pH 6.0 – 8.2	pH 6.0 – 8.2	5-70	436/540	150	18	yes	**931 270**
Phosphate	0.2 – 5.0 mg/l PO_4-P 0.6 – 15 mg/l PO_4^{3-}	5-84	690	80	36	yes	**931 284**
Potassium	2 – 25 mg/l K^+	5-32	690	60	36	1+1	**931 232**
Silica	0.2 – 3.0 mg/l SiO_2	5-33	690	80	36	yes	**931 233**
Sulphate	20 – 200 mg/l SO_4^{2-}	5-92	436	100	36	1:50	**931 292**
Sulphide	0.05 – 0.80 mg/l S^{2-}	5-94	620	90	36	yes	**931 294**
Zinc	0.1 – 3.0 mg/l Zn^{2+}	5-98	620	120	12	1+9	**931 298**
***NANOCOLOR®* tube tests**							
Aluminium 07	0.02 – 0.70 mg/l Al^{3+}	0-98	540	19	12	yes	**985 098**
Ammonium 3	0.04 – 2.30 mg/l NH_4-N 0.05 – 3.00 mg/l NH_4^+	0-03	690	20	12	1+1	**985 003**
Ammonium 10	0.2 – 8.0 mg/l NH_4-N 0.2 – 10 mg/l NH_4^+	0-04	690	20	12	yes	**985 004**
Ammonium 50	1 – 40 mg/l NH_4-N 1 – 50 mg/l NH_4^+	0-05	690	20	12	yes	**985 005**
Ammonium 100	4 – 80 mg/l NH_4-N 5 – 100 mg/l NH_4^+	0-08	585	20	12	yes	**985 008**
Ammonium 200	30 – 160 mg/l NH_4-N 40 – 200 mg/l NH_4^+	0-06	585	20	12	yes	**985 006**
AOX 3	0.1 – 3.0 mg/l AOX 0.01 – 0.30 mg/l AOX	0-07	470	20	12	yes	**985 007**
BOD_5	0.5 – 12.0 mg/l O_2	8-22	470	25-50	24	yes	**985 822**
BOD_5-TT	0.5 – 7.5 mg/l O_2	8-25	470	11-21	24	yes	**985 825**
Cadmium 2	0.05 – 2.00 mg/l Cd^{2+}	0-14	540	10-19	12	yes	**985 014**
Carbonate hardness 15	1.0 – 15.0 °d 0.4 – 5.4 mmol/l H^+	0-15	436/585	20	12	yes	**985 015**
Chloride 50	0.5 – 50.0 mg/l Cl^-	0-21	470	20	12	no	**985 021**
Chloride 200	5 – 200 mg/l Cl^-	0-19	470	20	12	1:200	**985 019**
Chlorine/Ozone 2	0.05 – 2.50 mg/l Cl_2 0.05 – 2.00 mg/l O_3	0-17	540	20	12	yes	**985 017**
Chlorine dioxide 5	0.15 – 5.00 mg/l ClO_2	0-18	540	20	12	yes	**985 018**
Chromate 5	0.05 – 2.00 mg/l Cr(VI) 0.1 – 4.0 mg/l CrO_4^{2-}	0-24	540	20	24	yes	**985 024**
COD 40	2 – 40 mg/l O_2	0-27	345	20	12 at 2-8°C	no	**985 027**
COD 60	5 – 60 mg/l O_2	0-22	345	20	12 at 2-8°C	no	**985 022**
COD 160	15 – 160 mg/l O_2	0-26	436	20	12	no	**985 026**
COD 160 Hg-free	15 – 160 mg/l O_2	0-26	436	20	12 at 2-8°C	no	**963 026**
COD 300	50 – 300 mg/l O_2	0-33	436	20	12	no	**985 033**
COD 1500	100 – 1500 mg/l O_2	0-29	620	20	12	no	**985 029**
COD 10000	1.00 – 10.00 g/l O_2	0-23	620	20	12	no	**985 023**
COD 15000	1.0 – 15.0 g/l O_2	0-28	620	20	12	no	**985 028**
COD 60000	5.0 – 60.0 g/l O_2	0-12	620	20	12	no	**985 012**
org. Complexing agents 10 (Screeningtest)	0.5 – 10.0 mg/l IBiC	0-52	540	10-19	12	1:20	**985 052**
Copper 7	0.10 – 7.00 mg/l Cu^{2+}	0-54	585	20	12	yes	**985 054**

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Cyanide 08	0.02 – 0.80 mg/l CN^-	0-31	585	20	12	1+3	**985 031**
DEHA 1 (Diethylhydroxylamine)	0.05 – 1.00 mg/l DEHA	0-35	540	20	12	yes	**985 035**
Ethanol 1000	0.10 – 1.00 g/l EtOH	8-38	620	23	24 at <0°C	no	**985 838**
Fluoride 2	0.1 – 2.0 mg/l F^-	0-40	620	20	18	1+9	**985 040**
Formaldehyde 8	0.1 – 8.0 mg/l HCHO	0-41	585	20	24	no	**985 041**
Formaldehyde 10	0.20 – 10.00 mg/l HCHO	0-46	436	20	24	yes	**985 046**
Hardness 20	1.0 – 20.0 °d 5 – 50 mg/l Mg^{2+} 0.2 – 3.6 mmol/l 10 – 100 mg/l Ca^{2+}	0-43	540	20	18	1:30	**985 043**
HC 300 (hydrocarbons)	0.5 – 5.6 mg/l HC 30 – 300 mg/kg HC	0-57	436	20	12	yes	**985 057**
Iron 3	0.10 – 3.00 mg/l Fe	0-37	540	20	12	yes	**985 037**
Lead 5	0.10 – 5.00 mg/l Pb^{2+}	0-09	540	20	12	no	**985 009**
Manganese 10	0.1 – 10.0 mg/l Mn^{2+}	0-58	470	20	18	yes	**985 058**
Methanol 15	0.2 – 15.0 mg/l MeOH	8-59	620	23	12 at < 0°C	no	**985 859**
Molybdenum 40	1.0 – 30.0 mg/l Mo (VI) 1.6 – 50.0 mg/l MoO_4	0-56	345	20	24	no	**985 056**
Nickel 7	0.10 – 7.00 mg/l Ni^{2+}	0-61	470	20	24	1+9	**985 061**
Nitrate 8	0.30 – 8.00 mg/l NO_3-N 1.3 – 35.0 mg/l NO_3^-	0-65	345	20	24	no	**985 065**
Nitrate 50	0.3 – 22.0 mg/l NO_3-N 2 – 100 mg/l NO_3^-	0-64	345	20	24	no	**985 064**
Nitrate 250	4 – 60 mg/l NO_3-N 20 – 250 mg/l NO_3^-	0-66	345	20	24	no	**985 066**
Nitrite 2	0.003 – 0.460 mg/l NO_2-N 0.02 – 1.50 mg/l NO_2^-	0-68	540	20	12	yes	**985 068**
Nitrite 4	0.1 – 4.0 mg/l NO_2-N 0.3 – 13.0 mg/l NO_2^-	0-69	540	20	18	yes	**985 069**
total-Nitrogen TN_b 22	0.5 – 22.0 mg/l N	0-83	345	20	12	no	**985 083**
total-Nitrogen TN_b 220	5 – 220 mg/l N	0-88	345	20	12	no	**985 088**
Organic acids 3000	30 – 3000 mg/l CH_3COOH 0.5 – 50.0 mmol/l CH_3COOH	0-50	470	20	18	yes	**985 050**
Oxygen 12	0.5 – 12.0 mg/l O_2	0-82	436	22	24	yes	**985 082**
Peroxide 2	0.03 – 2.00 mg/l H_2O_2	8-71	620	10 – 19	12 at 2-8°C	yes	**985 871**
pH 6.5-8.2	pH 6.5 – 8.2	0-72	436/540	100	18	yes	**918 72**
Phenolic index 5	0.2 – 5.0 mg/l Phenol	0-74	470	20	18	yes, after extraction	**985 074**
Potassium 50	2 – 50 mg/l K^+	0-45	690	20	24	1+9	**985 045**
ortho- and *total*-Phosphate 1	0.05 – 1.50 mg/l P 0.2 – 5.0 mg/l PO_4^{3-}	0-76	690	19	12	yes (ortho-P)	**985 076**
ortho- and *total*-Phosphate 5	0.20 – 5.00 mg/l P 0.5 – 15.0 mg/l PO_4^{3-}	0-81	690	19	12	yes (ortho-P)	**985 081**
ortho- and *total*-Phosphate 15	0.30 – 15.00 mg/l P 1.0 – 45.0 mg/l PO_4^{3-}	0-80	690	19	12	yes (ortho-P)	**985 080**
ortho- and *total*-Phosphate 45	5.0 – 50.0 mg/l P 15 – 150 mg/l PO_4^{3-}	0-55	690	19	12	yes (ortho-P)	**985 055**
ortho- and *total*-Phosphate 50	10.0 – 50.0 mg/l P 30 – 150 mg/l PO_4^{3-}	0-79	436	19	36	yes	**985 079**
POC 200 (polyoxylcarboxylic acids)	20 – 200 mg/l	0-70	436	20	18	1+3	**985 070**
Residual hardness 1	0.02 – 1.00 °d 0.004 – 0.180 mmol/l	0-84	540	20	12	no	**985 084**
Silver 3	0.20 – 3.00 mg/l Ag^+	0-49	620	20	18	no	**985 049**
Starch 100	5 – 100 mg/l Stärke	0-85	540	19	12	1+1	**985 085**
Sulphate 200	10 – 200 mg/l SO_4^{2-}	0-86	436	20	36	no	**985 086**
Sulphate 1000	200 – 1000 mg/l SO_4^{2-}	0-87	436	20	36	no	**985 087**
Sulphide 3	0.05 – 3.00 mg/l S^{2-}	0-73	620	20	36	yes	**985 073**
Sulphite 10	0.2 – 10.0 mg/l SO_3^{2-}	0-89	436	20	12	1:20	**985 089**
Sulphite 100	5 – 100 mg/l SO_3^{2-}	0-90	470	19	12	yes	**985 090**
Surfactants: Anionic surfactants 4	0.20 – 4.00 mg/l MBAS	0-32	620	20	24	1+19	**985 032**
Surfactants: Cationic surfactants 4	0.20 – 4.00 mg/l CTAB	0-34	620	20	24	1+19	**985 034**
Surfactants: Nonionic surfactants 15	0.3 – 15.0 mg/l Triton® X-100	0-47	620	20	24	no	**985 047**
Thiocyanate 50	0.5 – 50.0 mg/l SCN^-	0-91	470	20	24	1+1	**985 091**
Tin 3	0.10 – 3.00 mg/l Sn	0-97	436	18	12	1+9	**985 097**
TOC 25	2.0 – 25.0 mg/l TOC	0-93	585	10	12	no	**985 093**
TOC 60	10 – 60 mg/l TOC	0-94	585	10	12	no	**985 094**
TOC 600	40 – 600 mg/l TOC	0-99	585	10	12	no	**985 099**
TTC/Sludge activity 150	5 – 150 µg TPF 0.050 – 2.300 E	8-90	470	20	24 at 2-8°C	no	**985 890**
Zinc 4	0.10 – 4.00 mg/l Zn^{2+}	0-96	620	20	12	1+1	**985 096**