

Lovibond® Water Analysis

Tintometer® Group



Lovibond® Comparator 2000+

Simple Methods of Water Analysis

- ✓ Drinking Water
- ✓ Surface, Ground and Raw Water
- ✓ Sewerage and Domestic Effluents
- ✓ Waste Water and Effluents
- ✓ Boiler and Cooling Water
- ✓ Aquaculture

System Components

Comparator instrument to bring the prepared sample and the glass filters together for colour matching



The Lovibond® Comparator 2000+ is a high quality instrument for visually matching the intensity of sample colour with Lovibond® glass filters; it includes an adjustable cell compartment for samples in cells of up to 40 mm path length. Lovibond® Nessleriser systems are longer path length instruments for matching a column of sample in a Nessler cylinder with Lovibond® glass filters; they are designed for measuring concentrations which are below the sensitivity of the Comparator 2000+.

Lovibond® comparator instruments include an integrated prism which causes the sample

and comparison fields to overlap, allowing enhanced colour discrimination and matching. The prism is ultrasonically sealed to prevent contamination of the optics. Both the Comparator 2000+ and the Nessleriser series include the facility to compensate for water samples which are turbid or tinted.



Lighting unit (optional) to ensure constant viewing conditions for colour matching

For consistent and accurate readings when using the Lovibond® Comparator System 2000+ it is important to use a constant light source for matching the sample with the glasses. Northern daylight (Southern daylight in the Southern hemisphere) is the optimum natural lighting for colour matching although users should be aware that it will vary according to the time of day, the weather, the season and exact location. Only by using a Lovibond® lighting unit is it possible to guarantee uniform lighting conditions for colour matching, 24 hours a day and irrespective of ambient lighting. The Daylight Lighting Unit is a standardised bench-top light source which guarantees constant and uniform lighting conditions for colour matching. The Portable Lighting Unit is a constant light source powered by rechargeable batteries for colour matching in any location.



Lovibond Tintometer recommends the use of a standardised light source particularly when the sample is very pale in colour or with dark samples where relatively little light is transmitted through it or where the difference in colour between adjacent glasses is slight.

Test disc containing a series of graded glass standards which have been pre-calibrated to give direct test readings

The Lovibond® range includes a selection of over 200 water test discs covering different measuring ranges for more than 50 test parameters. The unique feature of Lovibond® test discs is that they incorporate coloured glass standards that are colour stable and not affected by UV light or extreme environmental conditions. Each individually graded glass standard represents a discrete step on the measurement range (as opposed to a continuous graduation), aiding colour discrimination and allowing greater accuracy of results.



The table on the following pages provides details of the commonly used Lovibond® test discs that are available for water analysis.

Individual test methods are supplied with the disc. For most tests, the discs are calibrated in mg/l (or parts per million) and the sample volume to be used is stated in the method. In certain tests, the calibration is in micrograms (µg) so that the volume of the sample may be adjusted to cover the required concentration range.

Sample container of the required path length

Lovibond Tintometer supplies a range of precision fused glass and moulded optical cells and cylinders, in a range of dimensions and path lengths.

The table of Lovibond® water test discs include details of the container required for each test.



| Order Code | Type | Product |
|------------|-------------|--|
| 35 42 43 | DB424/S | Square 13.5 mm, 10 ml moulded glass cells with stoppers (pack of 5) |
| 35 20 40 | | Square 13.5 mm, 10ml moulded plastic cells with stoppers (pack of 5) |
| 60 68 90 | W680/OG/40 | Fused cell, 40 mm path length calibrated at 20 ml |
| 60 67 80 | W680/OG/2.5 | Fused cell, 2.5 mm path length |
| 60 67 90 | W680/OG/5 | Fused cell, 5 mm path length |
| 60 68 60 | W680/OG/25 | Fused cell, 25 mm path length |
| 35 30 80 | AF 306/P | Pair of cylinders (50 ml, 113mm) with glass anti-meniscus plungers for Nessleriser 2150 |
| 35 42 00 | DB 420 | Pair of cylinders (250 mm) with glass anti-meniscus plungers for Nessleriser 2250 |
| 35 42 30 | DB 423 | Pair of cylinders 100 ml (288 mm) (ASTM D 1209) with glass anti-meniscus plungers for Nessleriser 1209 |

Reagents, specific to the test, which produce a colour change in the sample

Included in the Lovibond® Comparator System 2000 is a comprehensive range of chemical reagents which develop the colour in the water sample. For many tests, reagents are available in a convenient tablet form, each tablet containing the correct mix of reagent, buffers and catalysts to ensure accurate dosing. The majority of Lovibond® tablet reagents are available in blister packs for a long shelf-life.

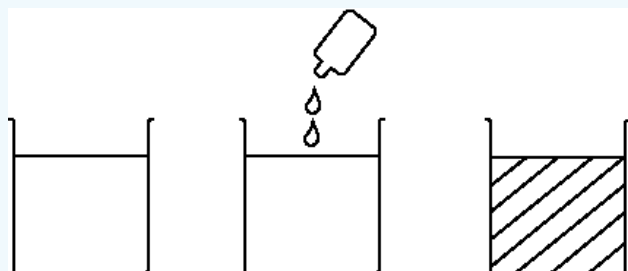
Accessories, as required

There are a range of accessories for use with the Lovibond® Comparator System 2000.

| Order Code | Type | Product |
|------------|----------|--|
| 17 02 60 | DB 426 | Cell stand for 10 ml moulded cells, to hold 10 cells |
| 17 02 90 | AF 306/S | Stand for 12 Nessler cylinders |
| 36 41 10 | | Glass stirring rod 4"/10 cm for comparator cells |
| 36 40 80 | | Glass stirring rod 8"/20 cm for Nessler cylinders |
| 36 41 00 | | Plastic stirring rod 5"/13 cm |
| 38 02 30 | | Cleaning brush 4"/10 cm |
| 38 00 30 | | Cleaning brush 8"/20 cm |

Lovibond® Comparator System 2000+

Colorimetric testing is a widely used method of quantitative water analysis which depends on measuring the intensity of colour, produced by the action of an appropriate chemical reagent, to determine the concentration of a particular chemical present in a sample.



A known volume of sample

Add appropriate reagent

Measure intensity of colour produced

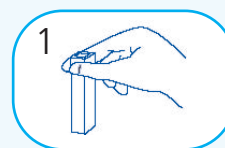
Lovibond Tintometer offers a selection of equipment which can be used to measure the depth of colour in a treated sample to give a quantitative answer:

Lovibond® Comparator System 2000+

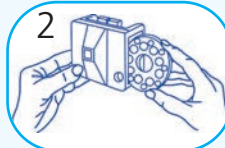
Based on visual comparison with coloured glass filters, which are calibrated to allow direct measurement of concentration levels.

Using the System

1 Follow the test method for sample preparation, adding the specified reagent to a known volume of sample in the appropriate sample container.



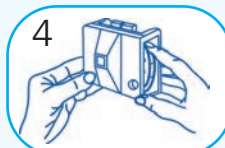
2 Insert the Lovibond® test disc into the comparator instrument.



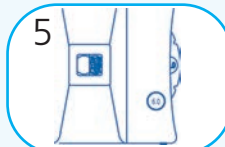
3 Place the sample container in the right hand comparator compartment, and, if specified in the test method, a cell containing a blank of water or untreated sample in the left hand side.



4 Using standardised lighting, rotate the disc until the closest colour match with the sample is obtained.



5 The value will be shown in the window in the comparator instrument.

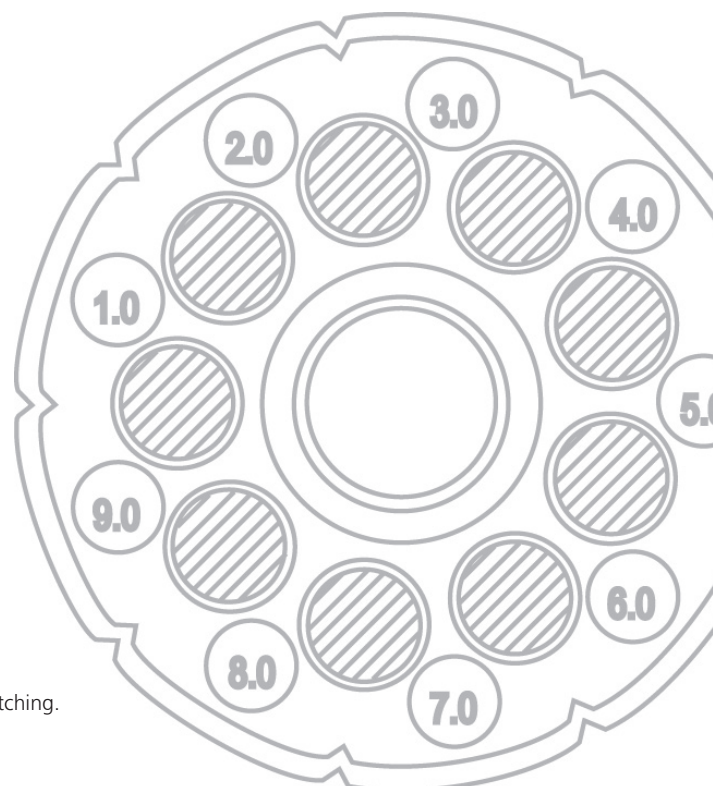


Colorimetric Chemical Analysis using Precalibrated Coloured Glass Filters



For more than 60 years the Lovibond® Comparator System has been used around the world for chemical analysis of water. Today it remains a popular choice for water analysis in all environments, offering a simple and flexible approach which gives reliable results in both laboratory and field testing:

- ✓ The equipment is easily used and quick to obtain results.
- ✓ It gives dependable measurements with guaranteed repeatability.
- ✓ It is compact, robust and easily portable.
- ✓ Reagents are mostly available in a convenient tablet form allowing accurate dosage.
- ✓ Set up costs are low and it is inexpensive to operate.
- ✓ Additional measurement ranges and tests are readily added, for more than 50 different parameters.
- ✓ The glass filters used for colour matching are colour stable and not affected by UV light.
- ✓ The comparator system can be used with turbid samples, unlike photometric systems.
- ✓ It includes optional lighting units to guarantee constant viewing conditions for colour matching.
- ✓ The test discs can be certified periodically under an ISO 9001:2000 QA procedure.



Nessleriser Systems

The Lovibond® Nessleriser Systems are based on the Comparator 2000+. They have a longer path length and are capable of measuring concentrations below the sensitivity of the standard Comparator.

Like the Comparator 2000+ the Nessleriser Systems include a prism to allow colour matching in a single field of view. Systems use either natural light or an electronic daylight unit for a constant light source.

2150 systems use cells with a path length of 113mm and are compatible with any Comparator 2000+ disc with the prefix "N".

2250 systems use cells with a path length of 250mm and are compatible with any Comparator 2000+ disc with the prefix "C".

The AF327 system is specifically designed for Hazen (Platinum-Cobalt) testing to the ASTM D1209 standard and uses a path length of 288mm.

| Order Code | Product | Path Length |
|--------------------|-------------------------------------|-------------|
| 172150 | Nessleriser 2150 System | 113mm |
| 172030 | Nessleriser 2150 Daylight System | 113mm |
| 172250 | Nessleriser 2250 System | 250mm |
| 172040 | Nessleriser 2250 Daylight System | 250mm |
| 433270 | Nessleriser AF327 | 288mm |
| Accessories | | |
| 353060 | AF306 Nessler Tubes | 113mm |
| 353080 | AF306/P Nessler Tubes with Plungers | 113mm |
| 354200 | DB420 Nessler Tubes with Plungers | 250mm |
| 354230 | DB423 Nessler Tubes with Plungers | 288mm |



Lovibond® Comparator 2000+ Kits

A wide range of single and multi parameter test kits based on the Comparator 2000 are available. Kits are supplied in a robust carry case with all necessary cells, reagents, discs, instructions and accessories (including additional Nesslerisers and MiniKit titration kits where necessary).

Part numbers for all available single parameter kits can be found in the Table of Water Test Discs and Kits on pages 6 to 14. Listed below are examples of kits for applications across the water industry. Bespoke kits containing customer specified tests can also be supplied on request. Please contact the local Lovibond® representative for further details.



Lovibond® 2000+ Leisure Water Kits

| Order Code | Description | Tests | Range |
|------------|--------------------------|--|---|
| 411160 | AF116B Chlorine / pH Kit | Chlorine pH | 0-4 mg/l 6.8-8.4 |
| 416570 | AF113C Bromine / pH Kit | Bromine pH | 0-6 mg/l 6.8-8.4 |
| 411290 | AF129 Balanced Water Kit | Chlorine pH Alkalinity Calcium Hardness | 0-4 mg/l 6.8-8.4 10-500 mg/l 10-500 mg/l |

Lovibond® 2000+ Environmental / Industrial Water Kits

| Order Code | Description | Tests | Range |
|------------|--|--|--|
| 411120 | AF112A Chlorine Free and Combined Kit | Chlorine | 0-1 mg/l |
| 416241 | AF112G Shipboard Chlorine Kit | Chlorine | 0.02-0.5 mg/l |
| 413570 | AF357 Potable Water Kit | Chloride Chlorine Hardness Hazen pH | 0-5000 mg/l 0.02-4 mg/l 0-500 mg/l 10-90 mg/l 6-8.4 |
| 413580 | AF358 Sewage and Domestic Effluent Kit | Ammonia Chlorine Nitrite Permanganate pH Sulphide | 0-1 mg/l 0.1-10 mg/l 0.05-0.5 mg/l 0-60 mg/l BOD 4-9.6 0-0.5 mg/l |
| 411090 | AF110 High and Low Chlorine Kit | Chlorine Chlorine (total) | 0-1 mg/l 5-50 mg/l |
| 411000 | AF100 Water Disinfection Kit | Chlorine pH Sodium Hypochlorite | 0.2-50 mg/l 6.8-8.4 2-16% |



Table of Lovibond® Water Test Discs

| ORDER CODE | TEST (Instrument) | DISC CODE | DISC READINGS / RANGE COVERED | REAGENT CODE | CHEMICAL METHOD BASED ON | ACCESSORIES REQUIRED | APPLICATIONS | KIT PART NUMBER |
|------------|-------------------------------------|-----------|--|----------------|-----------------------------|----------------------------|--|-----------------|
| 23 02 05 | ALUMINIUM (Comparator) | 3/127A | 0, 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50 mg/l | 517601BT | Aluminium Tablets | 13.5 mm cells DB 424 | Water treatment processes | 411570 |
| 23 15 00 | | 3/15 | 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8 mg/l & "blank" | | Haematoxylin | 13.5 mm cells DB 424 | | |
| 23 10 80 | | 3/108 | 0, 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.4 mg/l | | Catechol Violet | 13.5 mm cells DB 424 | | |
| 28 38 90 | ALUMINIUM (Nessleriser 2150) | NX | 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5 µg | | Haematoxylin | Nessler cylinders AF 306/P | | |
| 23 58 00 | AMINES (Comparator) | 3/58 | 1, 2, 3, 4, 5, 6, 7, 8, 10 mg/l as octadecylamine | 5111010 | Amine Tablets | Extraction tube AF 260 | Boiler water & feed water | 412740 |
| 23 64 00 | | 3/64 | 0, 0.25, 0.5, 1, 2 mg/l as octadecylamine | 56R013290 | Methyl Orange | 13.5 mm cells DB 424 | | 56K013201 |
| 23 00 60 | AMMONIA (Comparator) | 3/112 | 0, 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40 mg/l NH ₄ | 517611BT | Ammonia Tablets | 40 mm cells DB 428 | | 411580 |
| 23 00 70 | | 3/113 | 0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 mg/l N | " | Ammonia Tablets | 13.5 mm cells DB 424 | Fish farms/aquaria | 411590 |
| 23 01 80 | | 3/125 | 0, 1, 2, 3, 4, 5, 6, 8, 10 mg/l N | " | Ammonia Tablets | 2.5 mm cells W680/OG/2.5 | Industrial effluent, sewage leaks | 411600 |
| 23 06 60 | | 3/166 | 2, 4, 6, 8, 10, 12, 14, 16, 20 mg/l N | | Nessler's Reagent | 13.5 mm cells DB424 | Industrial effluent, sewage leaks | |
| 28 31 10 | AMMONIA (Nessleriser 2150) | NAA | 1, 2, 3, 4, 5, 6, 7, 8, 10 µg NH ₃ | 465200, 466101 | Nessler's Reagent | Nessler cylinders AF 306/P | Water courses as an indicator of organic pollution | |
| 28 31 20 | | NAB | 10, 12, 14, 16, 18, 20, 22, 24, 26 µg NH ₃ | " | Nessler's Reagent | Nessler cylinders AF 306/P | " | |
| 28 31 30 | | NAC | 28, 32, 36, 40, 44, 48, 52, 56, 60 µg NH ₃ | " | Nessler's Reagent | Nessler cylinders AF 306/P | " | |
| 28 31 40 | | NAD | 60, 65, 70, 75, 80, 85, 90, 95, 100 µg NH ₃ | " | Nessler's Reagent | Nessler cylinders AF 306/P | " | |
| 23 06 30 | BAQUACIL* (Comparator) | 3/163 | 0, 20, 25, 30, 35, 40, 45, 50, 75 ppm | 515890 | Baquaquest Tablets | 13.5 mm cells DB 424 | Swimming Pools | |
| 23 02 20 | BORON (Comparator) | 3/129 | 0, 0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0, 2.5 mg/l | 515790, 515800 | Boron Tablets | 13.5 mm cells DB 424 | Drinking water and hydroponics | |
| 23 53 10 | BROMINE (Comparator) | 3/53A | 0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4, 1.6, 2.0 mg/l | 511050BT | DPD Tablets | 13.5 mm cells DB 424 | | 416530 |
| 23 53 20 | | 3/53B | 1, 2, 3, 4, 5, 6, 7, 8, 10 mg/l | " | DPD Tablets | 13.5 mm cells DB 424 | Swimming Pools and spas | 416540 |
| 23 53 30 | | 3/53C | 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0 mg/l | " | DPD Tablets | 13.5 mm cells DB 424 | Swimming Pools and spas | 411080 |
| 23 89 00 | CADMIUM (Comparator) | 3/89 † | 0.5, 1, 1.5, 2, 2.5, 3, 4, 5 µg | | Dithizone/Potassium Cyanide | 13.5 mm cells DB 424 | Effluents | |
| 23 10 20 | CHEMICAL OXYGEN DEMAND (Comparator) | 4/21 † | 200, 300, 400, 500, 600 ppm | | Dichromate oxidation | 13.5 mm cells DB 424 | Dairy and malting effluents | |
| 23 10 30 | | 4/21A † | 100, 125, 150, 175, 200, 225, 250, 275, 300 ppm | | Dichromate oxidation | 13.5 mm cells DB 424 | Dairy and malting effluents | |
| 23 10 40 | | 4/21B † | 40, 50, 60, 70, 80, 90, 100, 110, 120 ppm | | Dichromate oxidation | 13.5 mm cells DB 424 | Dairy and malting effluents | |
| 23 10 50 | | 4/21C † | 10, 20, 30, 40 ppm | | Dichromate oxidation | 13.5 mm cells DB 424 | Dairy and malting effluents | |
| 23 71 00 | CHLORIDE (Comparator) | 3/71 | 10, 25, 50, 75, 100, 150, 200 mg/l | 464801 | Mercuric Thiocyanate | 13.5 mm cells DB 424 | Salinity of water | |
| 23 72 00 | | 3/72 | 2.5, 5, 7.5, 10, 15, 20, 40, 60, 80 mg/l | | Mercuric Thiocyanate | 40 mm cells DB 428 | Salinity of water | |
| 28 37 90 | CHLORIDE (Nessleriser 2150) | NOV | 1, 2, 3, 4, 5, 6, 7, 8, 10 mg/l | 464801 | Mercuric Thiocyanate | Nessler cylinders AF 306/P | Salinity of water | |

* Baquacil is a trade mark of Zeneca Biocides

† Laboratory method, not suitable as a test kit

Table of Lovibond® Water Test Discs

| ORDER CODE | TEST (Instrument) | DISC CODE | DISC READINGS / RANGE COVERED | REAGENT CODE | CHEMICAL METHOD BASED ON | ACCESSORIES REQUIRED | APPLICATIONS | KIT CODE |
|------------|---------------------------------|--|--|---|--------------------------|----------------------------|-------------------------------------|--------------------|
| 23 40 10 | CHLORINE (Comparator) DPD | 3/40A | 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 1.0 mg/l * | 511050BT, 511080BT | DPD Tablets | 13.5 mm cells DB 424 | Drinking water | 411120 |
| 23 41 40 | | 3/40J | 0.1, 0.2, 0.3, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0 mg/l * | " | DPD Tablets | 13.5 mm cells DB 424 | | 411125 |
| 23 40 90 | | 3/40S | 1.0, 1.2, 1.4, 1.6, 1.8, 2.0, 2.5, 3.0, 4.0 mg/l * | " | DPD Tablets | 13.5 mm cells DB 424 | | |
| 23 40 20 | | 3/40B | 0.2, 0.4, 0.6, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0 mg/l * | " | DPD Tablets | 13.5 mm cells DB 424 | | 411130 |
| 23 40 60 | | 3/40E | 0.02, 0.04, 0.06, 0.08, 0.1, 0.15, 0.2, 0.25, 0.3 mg/l * | " | DPD Tablets | 40 mm cells DB 428 | Swimming pools | 411250 |
| 29 59 20 | | - | 0.02, 0.04, 0.06, 0.08, 0.1, 0.2, 0.3, 0.4, 0.5 mg/l * | " | DPD Tablets | 40 mm cells DB 428 | Drinking water | |
| 23 40 70 | | 3/40F | 0.2, 0.25, 0.3, 0.35, 0.4, 0.5, 0.6, 0.7, 0.8 mg/l * | " | DPD Tablets | 40 mm cells DB 428 | Shipboard chlorination | |
| 23 40 81 | | 3/40HN | 2, 3, 4, 5, 6, 7, 8, 9, 10 mg/l * | " | DPD Tablets | 5 mm cells W680/OG/S | | 411123 |
| 23 39 30 | | 3/40K | 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0 mg/l * | " | DPD Tablets | 13.5 mm DB 424 | | 411121 |
| 23 39 20 | | 3/40P | 2.0, 2.3, 2.5, 2.7, 3.0, 3.2, 3.6, 4.0, 5.0 mg/l * | " | DPD Tablets | 13.5 mm DB 424 | | 4 11127 |
| 23 20 60 | | 3/2APH | 2, 3, 4, 5, 6, 7, 8, 9, 10 mg/l total Cl ₂ | 517721BT | Potassium Iodide Tablets | 40 mm cells DB 428 | | 418883 |
| 23 20 70 | | 3/2ARP | 5, 10, 15, 20, 25, 30, 35, 40, 50 mg/l total Cl ₂ | " | Potassium Iodide Tablets | 13.5 mm cells DB424 | Water mains, food processing | 418881 |
| 23 20 90 | | 3/2IOD | 5, 10, 25, 50, 75, 100, 150, 200, 250 mg/l total Cl ₂ | " | Potassium Iodide Tablets | 13.5 mm cells DB424 | Water mains, food processing | 418880 |
| 23 21 10 | | 3/2Hypo | 2, 4, 6, 8, 10, 12, 14, 16% w/w available Cl ₂ | " | Potassium Iodide Tablets | 13.5 mm cells DB424 | Storage test on Sodium Hypochlorite | 411390 |
| 23 25 10 | | 3/25A | 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 1.0 mg/l | | Neutral o-Tolidine** | 40 mm cells DB 428 | | |
| 23 25 20 | | 3/25B | 0.25, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0 mg/l | | Neutral o-Tolidine** | 13.5 mm cells DB 424 | | |
| 23 20 10 | 3/2A | 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 1.0 mg/l | | Acid o-Tolidine** | 13.5 mm cells DB 424 | | | |
| 23 20 80 | 3/2B | 1.2, 1.4, 1.6, 1.8, 2.0 mg/l | | Acid o-Tolidine** | 13.5 mm cells DB 424 | | | |
| 23 20 20 | 3/2AB | 0.15, 0.25, 0.5, 0.75, 1.0, 1.25, 1.5, 1.75, 2.0 mg/l | | Acid o-Tolidine** | 13.5 mm cells DB 424 | | | |
| 23 20 50 | 3/2APC | 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0 mg/l | | Acid o-Tolidine** | 13.5 mm cells DB 424 | | | |
| 23 20 30 | 3/2APA | 0.02, 0.04, 0.06, 0.08, 0.1, 0.15, 0.2, 0.25, 0.3 mg/l | | Acid o-Tolidine** | 5 mm cells W680/OG/S | | | |
| 23 20 40 | 3/2APB | 0.2, 0.25, 0.3, 0.35, 0.4, 0.5, 0.6, 0.7, 0.8 mg/l | | Acid o-Tolidine** | 40 mm cells DB 428 | | | |
| 28 34 50 | CHLORINE DPD (Nessleriser 2150) | NDPB | 0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.1 mg/l | 511230BT, 511250BT | DPD Tablets | Nessler cylinders AF 306/P | Potable water treatment | |
| 28 34 60 | | NDPC | 0.02, 0.04, 0.06, 0.08, 0.1, 0.12, 0.14, 0.16, 0.2 mg/l | " | DPD Tablets | Nessler cylinders AF 306/P | Potable water treatment | |
| 28 34 40 | | NDP | 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.5 mg/l | " | DPD Tablets | Nessler cylinders AF 306/P | Potable water treatment | |
| 28 34 70 | | NDPD | 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 1.0 mg/l | " | DPD Tablets | Nessler cylinders AF 306/P | Potable water treatment | |
| 28 33 10 | | NCA | 0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09 mg/l | | Acid o-Tolidine** | Nessler cylinders AF 306/P | | |
| 28 33 30 | | NCB | 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.45, 0.5 mg/l | | Acid o-Tolidine** | Nessler cylinders AF 306/P | | |
| 28 33 20 | | NCAB | 0.02, 0.04, 0.06, 0.08, 0.1, 0.2, 0.3, 0.4, 0.5 mg/l | | Acid o-Tolidine** | Nessler cylinders AF 306/P | | |
| 28 34 90 | | CHLORINE (Nessleriser 2250) | CBA | 0.002, 0.004, 0.006, 0.008, 0.01, 0.015, 0.02, 0.025, 0.03 mg/l | 471056 | DPD Liquid | 250 mm cylinders DB 420 | Aquaria, effluents |

* Can be used for free, combined and total chlorine measurements

** The use of o-Tolidine is controlled in the UK by the Carcinogenic Substances Regulations 1967

Table of Lovibond® Water Test Discs

| ORDER CODE | TEST (Instrument) | DISC CODE | DISC READINGS / RANGE COVERED | REAGENT CODE | CHEMICAL METHOD BASED ON | ACCESSORIES REQUIRED | APPLICATIONS | KIT PART NUMBER |
|------------|-------------------------------------|--|--|--------------------------------|-------------------------------------|----------------------------|---|-----------------|
| 29 22 60 | CHLORINE DIOXIDE (Comparator) | 3/40AD | 0.19, 0.38, 0.57, 0.76, 0.95, 1.14, 1.33, 1.52, 1.9 mg/l | 511050BT, 512170BT | DPD Tablets | 13.5 mm cells DB 424 | Water treatment, cooling towers | 56K014501 |
| 29 21 60 | | 3/40BD | 0.38, 0.76, 1.14, 1.9, 2.85, 3.8, 4.75, 5.7, 7.6 mg/l | " | DPD Tablets | 13.5 mm cells DB 424 | Water treatment, cooling towers | |
| 29 79 70 | | 3/40ED | 0.04, 0.08, 0.11, 0.15, 0.19, 0.28, 0.38, 0.48, 0.57 mg/l | " | DPD Tablets | 40 mm cells DB 428 | Water treatment, cooling towers | 419811 |
| 23 05 70 | | 3/157 | 0.25, 0.5, 0.75, 1.0, 1.25, 1.5, 2.0, 3.0, 5.0 mg/l | 517721BT, 512170BT | Potassium Iodide Tablets | 40 mm cells DB 428 | Water treatment, cooling towers | 421540 |
| 28 34 50 | CHLORINE DIOXIDE (Nessleriser 2150) | NDPB | 0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.1 mg/l as Cl ₂ | 511230BT, 512170BT | DPD Tablets | Nessler cylinders AF 306/P | | |
| 28 34 60 | | NDPC | 0.02, 0.04, 0.06, 0.08, 0.1, 0.12, 0.14, 0.16, 0.2 mg/l as Cl ₂ | " | DPD Tablets | Nessler cylinders AF 306/P | | |
| 28 34 40 | | NDP | 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.5 mg/l as Cl ₂ | " | DPD Tablets | Nessler cylinders AF 306/P | | |
| 23 59 00 | CHROMIUM (Comparator) | 3/59 | 10, 20, 30, 40, 50, 60, 70, 80, 100 µg | | Diphenylcarbazide | 13.5 mm cells DB 424 | Plating effluents. Chromium VI and total Chromium | 413630 |
| 23 10 60 | | 4/35 | 100, 150, 200, 250, 300, 350, 400, 500, 600 mg/l Cr as sodium chromate | | Colour of chromate ion | 13.5 mm cells DB 424 | Heating systems where chromate s used as a rust inhibitor | |
| 28 31 70 | CHROMIUM (Nessleriser 2150) | NOK | 2, 3, 4, 5, 6, 7, 8, 9, 10 µg | | Diphenylcarbazide | Nessler cylinders AF 306/P | | |
| 23 31 00 | | 3/31 † | 10, 25, 50, 75, 100, 125, 150, 175, 200 µg | | Thiocyanate | 13.5 mm cells DB 424 | | |
| 28 38 60 | COBALT (Nessleriser 2150) | NTA † | 1, 2, 3, 4, 5, 6, 7, 8, 9 µg | | Nitroso-R salt | Nessler cylinders AF 306/P | | |
| 28 38 70 | | NTB † | 10, 12.5, 15, 17.5, 20, 22.5, 25, 27.5, 30 µg | | Nitroso-R salt | Nessler cylinders AF 306/P | | |
| 23 00 50 | COPPER (Comparator) | 3/106 | 0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 mg/l | 51260BT | Copper/Zinc Low Range Tablets | 13.5 mm cells DB 424 | Industrial water/waste water | 411620 |
| 23 00 40 | | 3/110 | 0, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0 mg/l | 512340BT | Copper/Zinc High Range Tablets | 13.5 mm cells DB 424 | Industrial water/waste water | 56K014801 |
| 23 06 80 | | 3/168 | 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 1.0 mg/l | 517692BT | Copper Tablets | 40 mm cells DB 428 | | |
| 23 04 50 | | 3/149 | 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0 mg/l | 517692BT | Copper Tablets | 13.5 mm cells DB 424 | Trade effluents | |
| 23 39 00 | | 3/39 | 2.5, 5, 10, 15, 20, 25, 30, 40, 50 µg | | Zinc Dibenzylidithio-carbamate | 13.5 mm cells DB 424 | | |
| 23 05 00 | 3/5 | 2.5, 5, 10, 15, 20, 25, 30, 40, 50 µg | | Sodium Diethyldithio-carbamate | 13.5 mm cells DB 424 | | | |
| 23 10 90 | 3/109 | 0.0125, 0.025, 0.05, 0.075, 0.1, 0.125, 0.15, 0.2, 0.25 mg/l | | Copper 3/109 Tablets | Special extractor AF 262 | | Domestic water supplies | |
| 28 34 10 | COPPER (Nessleriser 2150) | NDA | 2.5, 5.0, 10, 15, 20, 25, 30, 35, 40 µg | | Dithio-oxamide | Nessler cylinders AF 306/P | | |
| 28 34 30 | | NDB | 30, 35, 40, 50, 60, 70, 80, 90, 100 µg | | Dithio-oxamide | Nessler cylinders AF 306/P | | |
| 23 33 00 | CYANIDE (Comparator) | 3/33 † | 0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 mg/l | | Benzidine Pyridine | 13.5 mm cells DB 424 | Not for use in UK | |
| 23 86 00 | | 3/86 | 0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 mg/l | | p-Phenylene diamine dihydrochloride | 13.5 mm cells DB 424 | Effluents. Measures free and simple complexes | 413620 |
| 28 36 60 | CYANIDE (Nessleriser 2150) | NOC † | 0.02, 0.04, 0.06, 0.08, 0.1, 0.12, 0.14, 0.16, 0.2 mg/l | | Pyridine pyrazolone | Nessler cylinders AF 306/P | River water, sewage and trade effluents | |
| 23 04 60 | | 3/150 | 8, 16, 24, 32, 40, 48, 56, 64, 80 µg/l. Disc reading should be multiplied by 2 for true DEHA concentration | 513220BT, 461181 | Iron reduction | 40 mm cells DB 428 | Oxygen scavenger - boiler water | 416400 |
| 23 48 00 | DETERGENTS (Comparator) | 3/48 † | 1, 2, 3, 4, 6, 8, 10, 12, 16 mg/l active material | | Methylene Blue | 13.5 mm cells DB 424 | Measures anionic detergents | |

† Laboratory method; not suitable as a test kit

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|------------|--|-----------|---|----------------|--------------------------------------|------------------------------|--|-----------------|
| 29 68 10 | DICHLOROPHEN (PANACIDE*) IN WATER (Comparator) | 3/57B | 20, 30, 40, 50, 60, 70, 80, 90, 100 mg/l | | 4-amino antipyrine | 5 mm cells W680/OG/5 | Cooling towers, air conditioning plant etc | |
| 28 37 40 | FLUORIDE (Nessleriser 2150) | NOO | 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3 mg/l | 511400, 511410 | Acid alizarin zirconium Tablets | Nessler cylinders AF 306/P | Cooke, Dixon and Sawyer method | 416070 |
| 28 37 30 | | NOM | 0, 0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4, 1.6 mg/l | " " | Acid alizarin zirconium Tablets | Nessler cylinders AF 306/P | Tablet method for natural and added fluoride | |
| 28 37 80 | | NOT | 0.2, 0.3, 0.4, 0.5, 1.1, 1.2, 1.3, 1.4, 1.5 mg/l | " " | Acid alizarin zirconium Tablets | Nessler cylinders AF 306/P | Control of drinking water fluoridation | |
| 23 10 70 | HARDNESS, TOTAL (Comparator) | 4/38 | 0, 5, 10, 15, 20, 25, 30, 40, 60 mg/l CaCO ₃ | | Hardness Eriochrome Powder | 13.5 mm cells DB 424 | Hardness in boiler water | |
| 24 28 00 | HAZEN SCALE (Comparator) | 4/28 | 50, 75, 100, 150, 200, 250, 300, 400, 500 mg PVI | N/A | Straight colour match to sample | 40 mm cells DB 428* | APHA, ASTM & British Standards | |
| 28 41 70 | HAZEN SCALE (Nessleriser 2150) | NSH | 10, 20, 30, 40, 50, 60, 70, 80, 90 mg PVI | N/A | Straight colour match to sample | Nessler cylinders AF 306/P** | APHA, ASTM & British Standards | 433250 |
| 28 41 20 | | NSB | 70, 85, 100, 125, 150, 175, 200, 225, 250 mg PVI | " " | Straight colour match to sample | Nessler cylinders AF 306/P** | APHA, ASTM & ISO Standards | " |
| 28 41 30 | | NSX | 50, 60, 70, 80, 100, 150, 200, 250, 300 mg PVI | " " | Straight colour match to sample | Nessler cylinders AF 306/P** | APHA, ASTM & ISO Standards | " |
| 28 41 50 | HAZEN SCALE (Nessleriser 2250) | CAA | 0, 2.5, 5, 7.5, 10, 15, 20, 25, 30 mg PVI | N/A | Straight colour match to sample | 250 mm cylinders DB 420** | APHA, ASTM & ISO Standards | 433280 |
| 28 41 60 | | CAB | 30, 35, 40, 45, 50, 55, 60, 65, 70 mg PVI | " " | Straight colour match to sample | 250 mm cylinders DB 420** | APHA, ASTM & ISO Standards | |
| 28 39 70 | HAZEN SCALE (Nessleriser 1209) | 1209/1 | 0, 2.5, 5, 7.5, 10, 15, 20, 25, 30 mg PVI | N/A | Straight colour match to sample | 100 ml cylinders DB 423 ** | Conforms to path length requirements specified in ASTM D1209 | 433270 |
| 28 39 80 | | 1209/2 | 30, 35, 40, 45, 50, 55, 60, 65, 70 mg PVI | " " | Straight colour match to sample | 100 ml cylinders DB 423 ** | | |
| 23 01 90 | HYDRAZINE (Comparator) | 3/126 | 0, 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.4, 0.5 mg/l | 462910 | Hydrazine test powder | 13.5 mm cells DB 424 | Boiler water | 56K015001 |
| 23 02 90 | | 3/135 | 0.02, 0.04, 0.06, 0.08, 0.1, 0.12, 0.14, 0.16, 0.2 mg/l | " " | Hydrazine test powder | 40 mm cells DB 428 | Boiler water | |
| 23 85 00 | | 3/85 | 0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 mg/l | 461261 | p-dimethyl-amino-benzaldehyde | 13.5 mm cells DB 424 | Simple single reagent | |
| 28 37 00 | HYDRAZINE (Nessleriser 2150) | NOH | 0, 0.5, 1, 2, 3, 4, 6, 8, 10 µg | " " | p-dimethyl-amino-benzaldehyde | Nessler cylinders AF 306/P | Boiler water | |
| 23 50 00 | HYDROGEN PEROXIDE (Comparator) | 3/50A | 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.5 mg/l | 512380 | Hydrogen Peroxide Low Range Tablets | 13.5 mm cells DB 424 | | 56K015201 |
| 23 50 10 | | 3/50B | 0.1, 0.2, 0.3, 0.4, 0.6, 1.0, 1.5, 2.0, 3.0 mg/l | " " | " " | 13.5 mm cells DB 424 | | 411350 |
| 23 50 20 | | 3/50E | 0.01, 0.02, 0.03, 0.04, 0.05, 0.07, 0.09, 0.12, 0.15 mg/l | " " | " " | 40 mm cells DB 428 | | |
| 23 00 80 | | 3/114 | 2, 4, 6, 8, 10, 12, 14, 16, 20 mg/l | 513530, 513010 | Hydrogen Peroxide High Range Tablets | 13.5 mm cells DB 424 | | 411481 |
| 23 00 90 | | 3/115 | 10, 20, 30, 40, 50, 60, 70, 80, 100 mg/l | 513530, 513010 | " " | 13.5 mm cells DB 424 | | |
| 29 64 70 | | 3/105 | 3, 5, 10, 15, 20, 30, 40, 50, 70 mg/l | | Potassium Titanium Oxalate | 13.5 mm cells DB 424 | Sewage treatment | 411480 |
| 23 77 10 | IODINE (Comparator) | 3/77A | 0.4, 0.7, 1.1, 1.4, 1.8, 2.2, 2.5, 2.9, 3.6 mg/l | 511050BT | DPD Tablets | 13.5 mm cells DB 424 | | |
| 23 77 20 | | 3/77B | 0.7, 1.4, 2.2, 3.6, 5.4, 7.2, 9.0, 11, 14 mg/l | | DPD Tablets | 13.5 mm cells DB 424 | | |

* Registered Trade Mark of Coalite Chemicals

** Use of a standardised lighting unit is recommended for pale coloured samples

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|------------|------------------------------|-------------------------|---|---|---|----------------------------|--|-----------------------------|
| 22 03 80 | IRON (Comparator) | 3/144 | 0.02, 0.04, 0.06, 0.08, 0.1, 0.15, 0.2, 0.25, 0.3 mg/l | 515370BT | Iron Low Range Tablets | 40 mm cells DB 428 | Measures total soluble iron | 413780 |
| 23 01 00 | | 3/116 | 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 1.0 mg/l | 515370BT, 515420 | Iron Low Range Tablets | 13.5 mm cells DB 424 | Measures total soluble iron | |
| 23 01 10 | | 3/117 | 1, 2, 3, 4, 5, 6, 7, 8, 10 mg/l | 515380 | Iron High Range Tablets | 13.5 mm cells DB 424 | Measures total soluble iron | 413790 |
| 23 88 00 | | 3/88 | 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.5, 0.75, 1.0 mg/l | | o-Phenanthroline | 40 mm cells DB 428 | Measures ferrous and ferric iron | |
| 23 06 00 | | 3/6 | 10, 20, 30, 40, 50, 60, 70, 80, 100 µg | | Thioglycolic acid | 13.5 mm cells DB 424 | Measures total iron | |
| 23 10 10 | | APFE | 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4.5, 5 mg/l | | Thioglycolic acid | 40 mm cells DB 428 | Measures total iron | |
| 23 11 00 | | 3/11 | 2, 4, 6, 8, 10, 12.5, 15, 20, 25 µg | | Thiocyanate | 13.5 mm cells DB 424 | Measures ferric iron | |
| 23 05 90 | | 3/159 | 10, 20, 30, 40, 50, 60, 80, 110, 140 µg | | o-Phenanthroline | 13.5 mm cells DB 424 | Measures ferric iron | |
| 28 37 20 | | IRON (Nessleriser 2150) | NOL | 0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.10 mg/l | 515370BT, 515420 | Iron Low Range Tablets | Nessler cylinders AF 306/P | Measures total soluble iron |
| 28 35 10 | NEA | | 2, 4, 6, 8, 10, 12, 14, 16, 18 µg | | Thioglycolic Acid | Nessler cylinders AF 306/P | Measures total iron | |
| 28 35 30 | NEB | | 20, 25, 30, 35, 40, 45, 50, 55, 60 µg | | Thioglycolic Acid | Nessler cylinders AF 306/P | Measures total iron | |
| 28 35 20 | NEAB | | 5, 10, 15, 20, 25, 30, 40, 50, 60 µg | | Thioglycolic Acid | Nessler cylinders AF 306/P | Measures total iron | |
| 23 05 30 | LEAD (Comparator) | 3/153 † | 1, 2, 4, 6, 8, 10, 12, 16, 20 µg | | Dithizone/Cyanide | 13.5 mm cells DB 424 | Low levels in drinking water | |
| 23 28 00 | MAGNESIUM (Comparator) | 3/28 | 0, 1, 2, 3, 4, 5, 7, 10 mg/l | | Titan Yellow | 13.5 mm cells DB 424 | | |
| 23 06 90 | MANGANESE (Comparator) | 3/169 | 0, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0 mg/l | 517621BT | Manganese LR Tablets | 13.5 mm cells DB 424 | Total manganese in natural and industrial water supplies | 56K015601 |
| 23 21 50 | | 3/21 | 5, 10, 15, 20, 25, 30, 40, 50, 60 µg | | Formaloxime Hydrochloride | 13.5 mm cells DB 424 | | |
| 23 55 00 | | 3/55 | 0.03, 0.06, 0.09, 0.12, 0.15, 0.18, 0.21, 0.25, 0.3 µg | | Lucomalachite green | 13.5 mm cells DB 424 | | |
| 28 39 20 | MANGANESE (Nessleriser 2150) | NZZ | 0.025, 0.05, 0.075, 0.1, 0.15, 0.2, 0.3, 0.4, 0.5 mg/l | | Formaloxime Hydrochloride | Nessler cylinders AF 306/P | | |
| 28 39 40 | MANGANESE (Nessleriser 2250) | CCA | 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.5, 0.75, 1.0 mg/l | | Formaloxime | 250 mm cylinders DB 420 | | |
| 23 06 20 | MOLYBDATE (Comparator) | 3/162 | 0, 1, 2, 3, 4, 5, 6, 8, 10 mg/l MoO ₄ | 56R015750 | Dihydroxybenzene disulphonic acid | 40 mm cells DB 428 | Industrial water systems | 56K015701 |
| 23 03 20 | | 3/137 | 5, 10, 15, 20, 25, 30, 35, 40, 50 mg/l MoO ₄ | 517631BT | Molybdate Tablets | 40 mm cells DB 428 | Industrial water systems | 56K015801 |
| 23 03 30 | | 3/138 | 10, 20, 30, 40, 60, 80, 100, 120, 150 mg/l MoO ₄ | 517631BT | Molybdate Tablets | 13.5 mm cells DB 424 | Industrial water systems | 412920 |
| 23 36 00 | NICKEL (Comparator) | 3/36 | 1, 2, 3, 4, 5, 6, 7, 8, 10 mg | | Dimethyl glyoxime | 13.5 mm DB 424 | Effluents | |
| 23 01 70 | NITRATE (Comparator) | 3/124 | 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 1.0 mg/l N | 502810, 465230, 512310, 366220 | Zinc reduction to nitrite (Nitrate Test Powder) | 13.5 mm cells DB 424 | Aquaria & drinking water | 56K016001 |
| 23 17 00 | | 3/17 † | 5, 10, 20, 30, 40, 50, 60, 70, 80, 100 µg N | | Phenol 2,4 disulphonic acid | 13.5 mm cells DB 424 | | |
| 23 32 00 | | 3/32 † | 1, 2, 3, 4, 5, 6, 7, 8, 9 mg/l N | | Brucine | 13.5 mm cells DB 424 | | |
| 23 56 00 | | 3/17 † | 10, 20, 40, 60, 80, 100, 120, 160, 200 µg N | | Phenol 2,4 disulphonic acid | 13.5 mm cells DB 424 | | |
| 23 03 60 | | 3/142 | 10, 20, 30, 40, 50, 60, 70, 80, 100 mg/l N | 517641 | Nitrate No 1/No 2 tablets | 13.5 mm cells DB 424 | | |

† Laboratory method; not suitable as a test kit

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|------------|--------------------------------------|-----------|---|------------------------|-------------------------------------|--------------------------------|--|-----------------|
| 23 32 00 | NITRATE (Comparator) | 3/32 # | 1, 2, 3, 4, 5, 6, 7, 8, 9 mg/l N | | Brucine | 13.5 mm cells DB 424 | | |
| 23 56 00 | NITRATE (Comparator) continued | 3/56 | 10, 20, 40, 60, 80, 100, 120, 160, 200 µg N | | Phenol 2:4 disulphonic acid | 13.5 mm cells DB 424 | | |
| 28 35 70 | NITRATE (Nessleriser 2150) | NHP # | 2.5, 5, 7.5, 10, 12.5, 15, 20, 25, 30 µg N | | Phenol 2:4 disulphonic acid | Nessler cylinders AF 306/P | | |
| 28 35 60 | NITRATE (Nessleriser 2150) | NH # | 2, 4, 6, 8, 10, 12, 15, 18, 25 µg N | | 2:4-xylene-I-ol | Nessler cylinders AF 306/P | | |
| 23 00 30 | NITRITE (Comparator) | 3/103 | 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.5 mg/l N | 512310 | Nitrite Low Range Tablets | 13.5 mm cells DB 424 | | 56K016201 |
| 23 83 00 | NITRITE (Comparator) | 3/83 | 1, 2, 3, 5, 7, 9, 11, 13, 15 µg N | | Cleve's Acid | 13.5 mm cells DB 424 | | |
| 23 93 10 | NITRITE (Comparator) | 3/93A | 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.1 % | | Cleve's Acid | 25 mm cells W680/OG/25 | Pickling brines | |
| 23 93 20 | NITRITE (Comparator) | 3/93B | 0.10, 0.11, 0.12, 0.14, 0.15, 0.16, 0.18, 0.20 % | | Cleve's Acid | 25 mm cells W680/OG/25 | Pickling brines | |
| 28 39 60 | NITRITE (Nessleriser 2150) | NJP | 0.002, 0.004, 0.006, 0.01, 0.015, 0.02, 0.03, 0.04, 0.05 mg/l N | 512310, 502371 | Nitrite LR Tablets | Nessler cylinders AF 306/P | Fish farms/aquaria | |
| 28 35 80 | NITRITE (Nessleriser 2150) | NJ | 0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 µg N | | Cleve's Acid | Nessler cylinders AF 306/P | | |
| 23 03 00 | NITROGEN | | (See Ammonia, Nitrate, Nitrite) | | | | | |
| 23 06 50 | OXYGEN, DISSOLVED (Comparator) | 3/3 | 4, 5, 6, 7, 8, 9, 10, 11, 12 mg/l | 461150, 461160, 461170 | Alsterberg's Method | 13.5 mm cells DB 424 | Natural waters, lakes, ponds | 413870 |
| 28 36 80 | OXYGEN, DISSOLVED (Nessleriser 2150) | 3/165 | 2, 3, 4, 5, 6, 7, 8, 10, 12 mg/l | " | Alsterberg's Method | 13.5 mm cells DB 424 | Natural waters, lakes, ponds | 56K016301 |
| 28 36 80 | OXYGEN, DISSOLVED (Nessleriser 2150) | NOE | 0, 0.005, 0.01, 0.015, 0.03, 0.055, 0.08, 0.1, 0.12 mg/l | | Indigo carmine | Special glass cylinders AF 315 | Special for boiler water | |
| 28 35 90 | OXYGEN, DISSOLVED (Nessleriser 2150) | NKA | 0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 ml/l | 461150, 461160, 461170 | Alsterberg's Method | Nessler cylinders AF 306/P | | |
| 28 36 00 | OXYGEN, DISSOLVED (Nessleriser 2150) | NKB | 0.4, 0.5, 0.6, 0.7, 0.8, 1.0, 1.2, 1.4, 1.6 mg/l | " | Alsterberg's Method | Nessler cylinders AF 306/P | | |
| 28 39 00 | OXYGEN, DISSOLVED (Nessleriser 2150) | NVA # | 0.001, 0.003, 0.005, 0.007, 0.009, 0.012, 0.015, 0.018, 0.02 ml/l | | Modification of Alsterberg's Method | Nessler cylinders AF 306/P | | |
| 28 39 10 | OXYGEN, DISSOLVED (Nessleriser 2150) | NYB # | 0.025, 0.03, 0.035, 0.04, 0.045, 0.05, 0.06, 0.08, 0.1 ml/l | | Modification of Alsterberg's Method | Nessler cylinders AF 306/P | | |
| 28 38 00 | OXYGEN, DISSOLVED (Nessleriser 2150) | NOWA # | 0.002, 0.003, 0.005, 0.006, 0.008, 0.01, 0.011, 0.013, 0.014 ml/l | | Acid o-Tolidine * | Nessler cylinders AF 306/P | | |
| 28 38 10 | OXYGEN, DISSOLVED (Nessleriser 2150) | NOWB # | 0.016, 0.024, 0.032, 0.04, 0.047, 0.053, 0.063, 0.071, 0.079 ml/l | | Acid o-Tolidine * | Nessler cylinders AF 306/P | | |
| 23 67 00 | OZONE (Comparator) | 3/67 | 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 1.0 mg/l | 511220BT, 512170BT | DPD Tablets | 13.5 mm cells DB 424 | Swimming pools, water disinfection | 413810 |
| 23 67 10 | OZONE (Comparator) | 3/67A | 0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.10 mg/l | " | DPD Tablets | 40 mm cells DB 428 | Swimming pools, water disinfection | |
| 23 67 70 | OZONE (Comparator) | 3/67S | 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.45 mg/l | " | DPD Tablets | 13.5 mm cells, DB 424 | Swimming pools, water disinfection | |
| 23 04 40 | OZONE (Comparator) | 3/148 | 0, 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50 mg/l | 513170 | Ozone Tablets | 40 mm cells DB 428 | New "Standard Method" based on indigo trisulphonate for treated water and swimming pools | 413880 |
| 28 37 60 | OZONE (Nessleriser 2150) | NOR | 0.01, 0.02, 0.04, 0.06, 0.1, 0.15, 0.2, 0.25, 0.3 mg/l | 511261, 512170BT | DPD Tablets | Nessler cylinders AF 306/P | | |
| 28 37 70 | OZONE (Nessleriser 2150) | NOS | 0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0, 2.5 mg/l | | Potassium Iodide | Nessler cylinders AF 306/P | | |
| 23 04 30 | PERMANGANATE VALUE (Comparator) | 3/3A | 0, 5, 10, 15, 20, 30, 40, 50, 60 mg/l | | Acid permanganate | 13.5 mm cells DB 424 | Approx. measure of oxidisable matter (organic & inorganic) in effluents & river water | |

* The use of o-Tolidine is controlled in the UK by the Carcinogenic Substances Regulations 1967 † Laboratory method; not suitable as a test kit

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|------------|---|---|---|-----------------|--------------------------|----------------------------|---|-----------------|
| 22 12 60 | pH VALUE (Comparator) Narrow range | 2/1Y | 0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4, 1.6, 1.8 | 511600 | Cresol Red | 13.5 mm cells DB 424 | <i>Almost any aqueous solution. Nessler method more suitable for unbuffered water</i> | 56K016701 |
| 22 12 50 | | 2/1W | 1.0, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.4, 2.6 | 511710 | m-Cresol Purple | 13.5 mm cells DB 424 | | |
| 22 10 10 | | 2/1A | 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.4, 2.6, 2.8 | 511650 | Thymol Blue | 13.5 mm cells DB 424 | | |
| 22 10 30 | | 2/1B | 2.8, 3.0, 3.2, 3.4, 3.6, 3.8, 4.0, 4.2, 4.4 | 511620 | Bromophenol Blue | 13.5 mm cells DB 424 | | |
| 22 13 30 | | 2/1ZG | 2.8, 3.0, 3.2, 3.4, 3.6, 3.8, 4.0, 4.2, 4.4 | | Methyl Orange | 13.5 mm cells DB 424 | | |
| 22 12 40 | | 2/1V | 3.0, 3.2, 3.4, 3.6, 3.8, 4.0, 4.2, 4.4, 4.6 | | "BDH 3046" | 13.5 mm cells DB 424 | | |
| 22 10 50 | | 2/1C | 3.6, 3.8, 4.0, 4.2, 4.4, 4.6, 4.8, 5.0, 5.2 | 511760 | Bromocresol Green | 13.5 mm cells DB 424 | | |
| 22 10 60 | | 2/1CC | 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0 | | "BDH 4080" | 13.5 mm cells DB 424 | | |
| 22 10 70 | | 2/1D | 4.4, 4.6, 4.8, 5.0, 5.2, 5.4, 5.6, 5.8, 6.0 | | "BDH 4460" | 13.5 mm cells DB 424 | | |
| 22 10 80 | | 2/1E | 4.4, 4.6, 4.8, 5.0, 5.2, 5.4, 5.6, 5.8, 6.0 | 451631 | Methyl Red | 13.5 mm cells DB 424 | | |
| 22 10 90 | | 2/1F | 4.8, 5.0, 5.2, 5.4, 5.6, 5.8, 6.0, 6.2, 6.4 | | Chlorophenol Red | 13.5 mm cells DB 424 | | |
| 22 11 00 | | 2/1G | 5.2, 5.4, 5.6, 5.8, 6.0, 6.2, 6.4, 6.6, 6.8 | 511730 | Bromocresol Purple | 13.5 mm cells DB 424 | | |
| 22 11 10 | | 2/1H | 6.0, 6.2, 6.4, 6.6, 6.8, 7.0, 7.2, 7.4, 7.6 | 511640BT | Bromothymol Blue | 13.5 mm cells DB 424 | | |
| 22 11 30 | | 2/1J | 6.8, 7.0, 7.2, 7.4, 7.6, 7.8, 8.0, 8.2, 8.4 | 511750BT | Phenol Red | 13.5 mm cells DB 424 | | |
| 22 11 40 | | 2/1K | 7.2, 7.4, 7.6, 7.8, 8.0, 8.2, 8.4, 8.6, 8.8 | 511600 | Cresol Red | 13.5 mm cells DB 424 | | |
| 22 12 70 | 2/1Z | 7.6, 7.8, 8.0, 8.2, 8.4, 8.6, 8.8, 9.0, 9.2 | 511710 | m-Cresol Purple | 13.5 mm cells DB 424 | | | |
| 22 11 90 | 2/1L | 8.0, 8.2, 8.4, 8.6, 8.8, 9.0, 9.2, 9.4, 9.6 | 511650 | Thymol Blue | 13.5 mm cells DB 424 | | | |
| 22 12 30 | 2/1U | 8.6, 8.8, 9.0, 9.2, 9.4, 9.6, 9.8, 10.0 | | "BDH 8610" | 13.5 mm cells DB 424 | | | |
| 22 13 20 | 2/1ZF | 8.6, 8.8, 9.0, 9.2, 9.4, 9.6, 9.8, 10.0, 10.2 | | Phenolphthalein | 13.5 mm cells DB 424 | | | |
| 22 12 00 | 2/1M | 9.0, 9.5, 10.0, 10.5, 11.0 | | "BDH 9011" | 13.5 mm cells DB 424 | | | |
| 22 12 20 | pH VALUE (Comparator) Broad range | 2/1P | 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 9.4, 10.0, 11.0 | 451770 | Universal | 13.5 mm cells DB 424 | | |
| 22 13 10 | | 2/1ZE | 1, 3, 5, 6, 7, 8, 9, 11, 13 | | "BDH Full Range" | 13.5 mm cells DB 424 | | |
| 28 11 10 | pH VALUE (Nessleriser 2150) | NLM | 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.4, 2.6, 2.8 | 511650 | Thymol Blue | Nessler cylinders AF 306/P | <i>Almost any aqueous solution. Nessler method more suitable for unbuffered water</i> | 56K016901 |
| 28 11 20 | | NLN | 2.8, 3.0, 3.2, 3.4, 3.6, 3.8, 4.0, 4.2, 4.4 | 511620 | Bromophenol Blue | Nessler cylinders AF 306/P | | |
| 28 11 50 | | NLR | 3.0, 3.2, 3.4, 3.6, 3.8, 4.0, 4.2, 4.4, 4.6 | | "BDH 3046" | Nessler cylinders AF 306/P | | |
| 28 10 10 | | NLA | 3.6, 3.8, 4.0, 4.2, 4.4, 4.6, 4.8, 5.0, 5.2 | 511760 | Bromocresol Green | Nessler cylinders AF 306/P | | |
| 28 11 70 | | NLT | 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0 | | "BDH 4080" | Nessler cylinders AF 306/P | | |
| 28 11 30 | | NLO | 4.4, 4.6, 4.8, 5.0, 5.2, 5.4, 5.6, 5.8, 6.0 | | "BDH 4460" | Nessler cylinders AF 306/P | | |
| 28 11 00 | | NLL | 4.4, 4.6, 4.8, 5.0, 5.2, 5.4, 5.6, 5.8, 6.0 | 451631 | Methyl Red | Nessler cylinders AF 306/P | | |
| 28 10 20 | | NLB | 5.2, 5.4, 5.6, 5.8, 6.0, 6.2, 6.4, 6.6, 6.8 | 511730 | Bromocresol Purple | Nessler cylinders AF 306/P | | |
| 28 10 30 | | NLC | 6.0, 6.2, 6.4, 6.6, 6.8, 7.0, 7.2, 7.4, 7.6 | 511640BT | Bromothymol Blue | Nessler cylinders AF 306/P | | |
| 28 10 40 | | NLD | 6.8, 7.0, 7.2, 7.4, 7.6, 7.8, 8.0, 8.2, 8.4 | 511750BT | Phenol Red | Nessler cylinders AF 306/P | | |

Laboratory method; not suitable as a test kit

Table of Lovibond® Water Test Discs

| ORDER CODE | TEST (Instrument) | DISC CODE | DISC READINGS / RANGE COVERED | REAGENT CODE | CHEMICAL METHOD BASED ON | ACCESSORIES REQUIRED | APPLICATIONS | KIT PART NUMBER | |
|------------|---|------------|--|---------------|--|--|--|---|--|
| 28 10 50 | pH VALUE (Nessleriser 2150) Continued | NLE | 7.2, 7.4, 7.6, 7.8, 8.0, 8.2, 8.4, 8.6, 8.8 | 511600 | Cresol Red | Nessler cylinders AF 306/P | Almost any aqueous solution. Nessler method more suitable for unbuffered water | | |
| 28 10 90 | | NLK | 7.6, 7.8, 8.0, 8.2, 8.4, 8.6, 8.8, 9.0, 9.2 | 511710 | m-Cresol Purple | Nessler cylinders AF 306/P | " | | |
| 28 10 60 | | NLF | 8.0, 8.2, 8.4, 8.6, 8.8, 9.0, 9.2, 9.4, 9.6 | | 511650 | Thymol Blue | Nessler cylinders AF 306/P | " | |
| 28 10 70 | | NLG | 9.0, 9.5, 10.0, 10.5, 11.0 | | | "BDH 9011" | Nessler cylinders AF 306/P | " | |
| 28 10 80 | | NLH | 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 9.4, 10.0, 11.0 | | 451770 | Universal | Nessler cylinders AF 306/P | " | |
| 28 11 80 | | NLU | 1, 3, 5, 6, 7, 8, 9, 11, 13 | | | "BDH Full Range" | Nessler cylinders AF 306/P | " | |
| 23 43 00 | PHENOLS, MONOHYDRIC (Comparator) | 3/43 | 0, 0.5, 1, 1.5, 2.0, 2.5, 3, 3.5, 4 µg | | 4 amino-antipyrine | 13.5 mm cells DB 424 | For phenol, ortho and meta substituted phenols | | |
| 28 38 30 | PHENOLS, TOTAL TAR ACIDS (Nessleriser 2150) | NP | 0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09 parts per 100, 000 | | Sulphanilic acid | Nessler cylinders AF 306/P | Road run-off | | |
| 23 02 70 | PHOSPHATE* (Comparator) | 3/133 | 0, 0.25, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0 mg/l PO ₄ | 517652BT | Phosphate Low Range Tablets | 13.5 mm cells DB 424 | Natural and drinking water | 419290 | |
| 23 03 10 | | 3/136 | 0, 5, 10, 15, 20, 25, 30, 35, 40 mg/l PO ₄ | 511980 | Phosphate High Range Tablets | 13.5 mm cells DB 424 | Industrial and boiler water | 56K019201 | |
| 23 07 00 | | 3/7 | 20, 40, 60, 80, 100, 130, 160, 190, 220 µg P ₂ O ₅ | | | Ammonium molybdate & stannous chloride | 13.5 mm cells DB 424 | | |
| 23 04 00 | | 3/4 † | 5, 10, 20, 30, 40, 50, 60, 80, 100 µg P ₂ O ₅ | | Ammonium molybdate & metol | 13.5 mm cells DB 424 | | | |
| 23 12 00 | | 3/12 | 0, 10, 20, 30, 40, 50, 60, 70, 80 mg/l PO ₄ | | Ammonium molybdate & hydroquinone | 13.5 mm cells DB 424 | | | |
| 23 38 00 | | 3/38 | 10, 20, 30, 40, 50, 60, 70, 80, 100 mg/l PO ₄ | | Ammonium molybdate/vanadate | 13.5 mm cells DB 424 | | | |
| 23 51 00 | | 3/51 † | 2, 5, 10, 15, 20, 30, 40, 60, 80 mg/l PO ₄ | | Ammonium molybdate & ascorbic acid | 13.5 mm cells DB 424 | | | |
| 23 60 00 | | 3/60 | 10, 20, 30, 40, 50, 60, 80, 100 mg/l PO ₄ | 56R017490 | Vanadomolybdate single reagent | 13.5 mm cells DB 424 | | 56K017401 | |
| 23 70 00 | | 3/70 | 0, 10, 20, 30, 40, 50, 60, 80, 100 mg/l PO ₄ | 511980 | Phosphate High Range Tablets | 13.5 mm cells DB 424 | Simplified field method for boiler water | 416200 | |
| 28 36 10 | PHOSPHATE* (Nessleriser 2150) | NMB † | 2, 4, 6, 8, 10, 12, 14, 17, 20 µg P ₂ O ₅ | | Ammonium molybdate & stannous chloride | Nessler cylinders AF 306/P | | | |
| 28 36 20 | | NMC † | 5, 10, 15, 20, 25, 30, 40, 50, 60 µg P ₂ O ₅ | | Ammonium molybdate & metol | Nessler cylinders AF 306/P | | | |
| 28 37 50 | | NOP | 10, 20, 30, 40, 50, 60, 70, 80, 100 µg PO ₄ | | Phosphate Nessleriser Tablets | Nessler cylinders AF 306/P | Simplified field method for boiler water | | |
| 28 38 20 | | NOX | 1, 2, 3, 4, 5, 6, 7, 8, 10 mg/l PO ₄ | | Phosphate Nessleriser Tablets | Nessler cylinders AF 306/P | | | |
| 28 39 50 | | NMD † | 10, 20, 30, 40, 50, 60, 70, 80, 100 µg PO ₄ | | Ammonium molybdate / ascorbic acid | Nessler cylinders AF 306/P | | For orthophosphate, poly phosphate & total phosphorus | |
| | | PHOSPHORUS | | See Phosphate | | | | | |
| | PLATINUM-COBALT COLOUR | | See Hazen Colour | | | | | | |
| 23 01 20 | QUATERNARY AMMONIUM COMPOUNDS (Comparator) | 3/118 | 0, 2, 4, 6, 8, 10, 12, 15, 20 mg/l active QAC | 515390 | QAC Low Range Tablets | 40 mm cells W680/OG/40 | Swimming pools, cooling towers | 56K017601 | |
| 23 01 30 | | 3/119 | 0, 20, 40, 60, 80, 100, 120, 150, 200 mg/l active QAC | 515400 | QAC High Range Tablets | 13.5 mm cells, DB 424 | Washing & rinse water | 56K017701 | |

* Without pretreatment all colorimetric methods respond only to orthophosphate † Laboratory method; not suitable as a test kit

Table of Lovibond® Water Test Discs

| ORDER CODE | TEST (Instrument) | DISC CODE | DISC READINGS / RANGE COVERED | REAGENT CODE | CHEMICAL METHOD BASED ON | ACCESSORIES REQUIRED | APPLICATIONS | KIT PART NUMBER |
|------------|---|--------------|--|--------------------|---|----------------------------|--|-----------------|
| 23 03 40 | SILICA (SiO ₂) (Comparator) | 3/139 | 0.4, 0.6, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0 mg/l | 517672 | Silica Tablets | 13.5 mm cells DB 424 | Natural & treated water | 411980 |
| 23 04 20 | | 3/147 | 1, 2, 3, 4, 5, 6, 7, 8, 10 mg/l | 517672 | Silica Tablets | 13.5 mm cells DB 424 | | 56K017901 |
| 23 02 50 | | 3/140 | 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 1.0 mg/l | | 1-Amino-2-naphthol-4-sulphonic acid | 40 mm cells DB 428 | Boiler water | |
| 23 13 00 | | 3/13 # | 2.5, 5, 7.5, 10, 12.5, 15, 17.5, 20, 25 mg/l | 460241 | Ammonium molybdate | 40 mm cells DB 428 | | 56K018001 |
| 28 36 30 | SILICA (SiO ₂) (Nessleriser 2150) | NN # | 1, 2, 4, 6, 8, 10, 12, 16, 20 mg/l | 460241 | Ammonium molybdate | Nessler cylinders AF 306/P | | |
| 28 36 40 | | NN Special # | 2, 3 mg/l only | 460241 | Ammonium molybdate | Nessler cylinders AF 306/P | "Take-off boost" water in jet aircraft | |
| 28 38 80 | | NV # | 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0 mg/l | | 1-Amino-2-naphthol-4-sulphonic acid | Nessler cylinders AF 306/P | Boiler water | |
| | SODIUM HYPOCHLORITE | | See Chlorine, Disc Code 3/2 Hypo | | | | | |
| 23 29 10 | SUGAR (Comparator) | 3/29A | 0, 5, 10, 15, 30, 45, 60, 75, 100 mg/l | | alpha-Naphthol | 5 mm cells W680/OG/5 | Sugar in boiler water or drain water in sugar refineries | |
| 23 02 10 | SULPHIDE (Comparator) | 3/128 | 0, 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50 mg/l S | 502930, 502940 | Sulphide Tablets | 13.5 mm cells DB 424 | Fresh water and lightly polluted effluents | |
| 23 01 60 | SULPHITE (Comparator) | 3/123 | 5, 10, 15, 20, 25, 30, 35, 40, 50 mg/l Na ₂ SO ₃ | | Potassium iodide/iodate | 40 mm cells DB 428 | Boiler water | |
| 28 36 50 | SULPHITE (Nessleriser 2150) | NOB | 2, 5, 10, 15, 20, 25, 30, 40, 50 mg/l Na ₂ SO ₃ | | Potassium iodide/iodate | Nessler cylinders AF 306/P | Boiler water | |
| 23 39 90 | SWIMMING POOLS (Comparator) | 3/40CZ | 0.5, 1.0, 1.5, 2.0, 4.0 mg/l Cl ₂ ; 7.0, 7.4, 7.6, 8.0 pH | 511050BT, 511750BT | DPD Tablets for Chlorine Phenol Red for pH | 13.5 mm cells DB 424 | Combined disc with restricted ranges | |
| 23 40 50 | | 3/40D | 0.5, 1, 2, 3, 4, 6 mg/l Cl ₂ ; 7.0, 7.5, 8.0 pH | " " | DPD Tablets for Chlorine, Phenol Red for pH | 13.5 mm cells DB 424 | Combined disc with restricted ranges | |
| 23 06 10 | TANNIN (Comparator) | 3/161 | 0, 2, 4, 6, 8, 10, 12, 16, 20 mg/l Tannic acid | | Folin & Ciocalteu's Reagent | 13.5 mm cells DB 424 | Corrosion inhibitors in industrial water systems | |
| 23 63 00 | THIOCYANATE (Comparator) | 3/63 # | 5, 10, 15, 20, 30, 40, 50, 60, 70 mg/l (SCN ion) | | Ferric chloride | 10 mm cells W680/OG/10 | Effluent from carbonising plants | |
| 23 35 00 | TIN (Comparator) | 3/35 # | 1, 2, 3, 4, 5, 6, 8, 10, 12 mg/l | | Dithiol | 13.5 mm cells DB 424 | | |
| 23 20 00 | VANADIUM (Comparator) | 3/20 | 10, 20, 30, 40, 50, 60, 70, 80, 100 µg | | 8-Hydroxyquinoline | 13.5 mm cells DB 424 | | |
| 23 69 00 | ZINC (Comparator) | 3/69 | 0, 2.5, 5, 10, 15, 20, 30, 40, 50 µg | | Brilliant Green | 13.5 mm cells DB 424 | | |
| 23 04 70 | | 3/151 | 0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 mg/l | 512620BT | Copper/Zinc LR Tablets | 13.5 mm cells DB 424 | Industrial water/waste water | 56K018201 |
| 23 03 90 | | 3/145 | 0.02, 0.06, 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4 mg/l | 512620BT | Copper/Zinc LR Tablets | 40 mm cells DB 428 | | |
| 23 00 20 | | 3/102 | 0, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0 mg/l | 512340BT | Copper/Zinc HR Tablets | 13.5 mm cells DB 424 | | 56K018301 |

Laboratory method; not suitable as a test kit



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