Lovibond® Water Testing

Tintometer® Group



PROMPT | Tintometer® Market Information | June 2013

Original Lovibond® Tablet Reagents





The ideal reagent for water analysis

Tablet reagents are considered to be the best way to introduce the reagent to the water sample. Production techniques and high in-house quality standards make it possible to produce tablets for water analysis which are guaranteed to have a shelf life of 5 or even 10 years. Individually packed in high-quality polyethylene coated aluminium foil, Lovibond® tablets provide ultimate results for daily water analysis.

They remain "fresh" until they are taken from the aluminium foil and this means that there is no ageing of the indicator.

One of the main advantages of this reagent format is that each tablet contains a precise amount of the required substances (indicator, buffer, complexing agent etc.).

Certificate of Analysis

To express the high quality standard of Lovibond® tablet reagents, specifications for each type of tablet as well as a "Certificate of Analysis" for each lot is available in the support area at www.lovibond.com.

Detailed information see: www.lovibond.com



Highlights

- Rapid & exact dosage
- No reagent residues in packaging
- High analysis accuracy
- Simple handling
- No accidental spills
- Safe & easy storage
- Guaranteed shelf life of 5-10 years
- Unrestricted shipment



Tablet Reagents

Parameter			←			
rarameter	try		ratio	tion)		ō
	/isual Colorimet	>	t (tit	(titra		ethc
	Colc	netri	coun	test	test	ty m
	sual	notometry	Tablet count	peed test	es/No test	rbid
	>	౼	Та	S	×	₽
Acid concentration			•			
Alkalinity-M	•	•	•	•		
Alkalinity-P		•	•			
Aluminium	•	•				
Amine	•					
Ammonia	•	•				
Boron		•				
Bromine	•	•				
Chlorine	•	•				
Chlorine dioxide	•	•				
Chloride	•	•	•			
Fluoride	•	•				
Hardness, calcium	•	•	•	•		
Hardness, total	•	•	•	•	•	
Hydroxide concentration			•			
Hydrogen peroxide	•	•				
lodine	•	•				
Iron	•	•				
Potassium		•				
Manganese	•	•				
Molybdate / Molybdenum	•	•				
Nickel	•	•				
Nitrate	•	•				
Nitrite	•	•	•			
Oxygen, activ		•				
Ozone	•	•				
Phenols		•				
PHMB (Biguanide)	•	•				
Phosphate	•	•				
pH value	•	•				
QAC	•		•		•	
Silica	•	•				
Sodium hypochlorite	•	•				
Stabilizer (Cyanuric acid)		•				•
Sulfate	•	•	•			•
Sulfide	•	•				
Sulfite	•	•	•			
Tannin			•			
Zinc	•	•				

Water analysis

One of the basic rules of chemical analysis is that chemicals and reagents of the same quality and composition must always be used.

All the chemicals required for analysis are combined in a Lovibond® tablet reagent. If side-effects or unexpected reactions occur because of incompatibilities, a second tablet is required. The advantage of this concept is that the tablets can be kept for a very long period with appropriate handling. Dissolving the tablet in the water sample to be checked will always produce a fresh reagent solution which is also the measurement solution.

Recording methods

The following methods of recording evidence of results are used in conjunction with Lovibond® tablet reagents.

Colorimetry

With a colorimetric measurement, the colour of the measurement solution after the tablet reagent has been added is compared against calibrated colour standards. When the colour match is found, the associated measurement figure is read off.

Photometry

Photometric methods differ from the colorimetric methods by the fact that they determine the color intensity of the solution photoelectronically from the light absorption or transmission of monochromatic light (light of one wavelength).

Tablet count method

In the tablet count method, the liquid titration solution and indicator are replaced by Lovibond® tablet reagents. A specific number of tablets are added to a defined sample volume until a chemically induced colour change takes place. The concentration of the parameter being measured is calculated from the number of tablets required.



Speed test

The speed test is based on reverse titration. After adding a reagent tablet to a calibrated test tube, the water sample is added slowly until the colour of the solution changes (e.g. from red to blue). The user can then obtain the result from the liquid level.

Yes/No test

A Yes/No test tells the user whether a specific ingredient is present in the water and/or if its concentration is higher or lower than a defined level.

Turbidity method

A two-section calibrated test tube is filled with the water sample and a reagent tablet is added. The reagent creates a level of turbidity that is proportional to the concentration of the parameter being measured. The inner tube, which has a black dot on its base, is lowered until the dot is obscured by the turbidity. The result is read off from the water level in the inner tube

We recommend, to use our systems with Lovibond® reagents only!

Lovibond® Water Testing Schleefstraße 8-12 DE-44287 Dortmund Tel.: +49 231 94510-0 Fax: +49 231 94510-20 sales@tintometer.de www.lovibond.com Germany

www.tintometer.ch Switzerland

Tintometer China

sunny.yuan@tintometer.com www.lovibond.testmart.cn

The Tintometer Limited sales@tintometer.com

www.lovibond.com

Tintometer South East Asia lovibond.asia@tintometer.com www.lovibond.com Malaysia

A Tintometer® Group Company service@orbeco.com www.orbeco.com



