



## SEIBOLD Wasser-Analysatorenfabrik GmbH

Industriepark Donau, Inkustrasse 1-7/6

A-3400 Klosterneuburg (EU)

Phone: +43 2243 20787

Mail: [office@seibold-wasser.com](mailto:office@seibold-wasser.com)

[www.seibold-wasser.com](http://www.seibold-wasser.com)

COMPOSER Johann G. Albrechtsberger - SEIBOLD Prozess-Analysator für Zink



### Sources

Zinc is an essential trace element found in virtually all food and potable water in the form of salts or organic complexes.

**Natural sources.** Zinc species are predominantly determined in the aquatic environment and in soils and sediments. **Industry.** Zinc is used principally in electroplating and semiconducting industry.

---

Continuous Analysis. Reliable Results.



**SEIBOLD Wasser-Analysatorenfabrik GmbH**

Industriepark Donau, Inkustrasse 1-7/6

A-3400 Klosterneuburg (EU)

Phone: +43 2243 20787

Mail: office@seibold-wasser.com

[www.seibold-wasser.com](http://www.seibold-wasser.com)

**Drinking water.** Although levels of zinc in surface water and groundwater normally do not exceed 0.01 and 0.05 mg/litre, respectively, concentrations in tap water can be much higher because of dissolution of zinc from pipes. Drinking-water containing zinc at levels above 3mg/litre may not be acceptable to consumers.

**Toxicity.** Zinc or zinc compounds are not listed as suspected carcinogens. Zinc compounds can produce irritation and corrosion of the gastrointestinal tract, along with acute renal tubular necrosis and interstitial nephritis.

**Method**

Metal is measured as chelate complex between metal ions in the wastewater and sensitive spectrophotometric reagent dye. Change of the intensity of the visible light throughout cuvette containing formed metal complex is directly proportional to metal concentration.

**Advantage of the system**

- Robust design.
- Minimal maintenance.
- Easy handling.
- High accuracy and precision.
- Suitable for mission critical applications.

Automated cleaning and calibration.

<b>System information</b>	
Measurement variable	Zinc (Zn)
Measurement application	Drinking water, river monitoring, electroplating and semiconducting industry
Measurement ranges	0.005 – 1.00 mg/L (ppm) other ranges possible upon request
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.005 mg/L
Calibration and cleaning	automated
Seibold Reagent kit	Buffer and Dye Provided by Sigma Aldrich