

2026 Chloride Process Analyzer

From Metrohm Process Analytics

Chloride is measured in many stages of different production processes. This can vary from stainless steel and oil production to monitoring food and desalination processes. The reason to measure the Cl^- concentration can be very distinctive. In food, the addition of chloride enhances flavors, and in waste water it is important to meet the official emissions regulations. Many water regulating companies around the world utilize chloride to check the contamination levels of the rivers and potable water sources.

The analysis of chloride, which can range in these situations from mg/L to g/L, is easily performed with a very robust titration method. The **2026 Chloride process analyzer** from Metrohm Process Analytics is the most straightforward and easy-to-use tool to do so online.

About the Chloride application

Chloride is determined via titration with silver nitrate (AgNO_3). The detection is performed with a Metrohm Ag electrode. The analyzer is able to handle a wide range of chloride concentrations, from **mg/L to g/L**.



Benefits for online analysis

- Protect expensive company assets by monitoring your processes
- Process data available at your fingertips 24/7 means no waiting for slow, manual laboratory methods
- Increased safety for employees – no manual sampling necessary, no exposure to hazardous environments
- Save money by reducing downtime: analyzer sends alarms for out-of-specification values which inform the operator sooner

Applications for Cl^-

- ... in production of potato chips / (food/beverage)
- ... in cold rolled steel production / (steel/metals)
- ... in wastewater treatment plants / (chemical)
- ... in coolant control / (chemical)
- ... in the chemical recovery system / (semiconductor)
- ... in salt load control WWTP / (environmental)
- ... in electrolyte tanks / (mining)

Cl^- analysis performed safely online

- Chloride can be measured in 1 or 2 sample streams
- Compact footprint for tight industrial spaces: 326 × 273 mm
- Safe, rugged enclosure designed to IP66 specifications is ideal for process environments
- A 7" full color touchscreen shows trend graphs and allows action modifications
- Remote access and control via Ethernet and Modbus TCP/IP, with USB for data export
- Easy maintenance due to simplicity of the layout
- Automatic data and/or alarm transfer to a DCS system

