

CHLORIDES

A new drop test, free of potassium chromate



Safety and accuracy combined

WATER KITS SUPPLY enhances chloride analysis with a drop-count colorimetric method designed for water treatment professionals and industrial users.

Key innovation: a non-hazardous indicator, free of potassium chromate, combined with an equally non-hazardous booster.

Key Highlights

- **Potassium chromate free** — the indicator does not contain this hazardous compound traditionally used in certain chloride tests.
- **More precise reading** — better accuracy than tests containing chromate, allowing finer chloride monitoring.
- **Simple and fast** — drop-count method, requiring no dedicated measuring instrument.
- **Wide measuring range** — typical usage from 10 to 150 mg/L (ppm), up to approximately 200 mg/L maximum with the specified procedure.
- **Approximately 75 tests per kit** — indicative yield for KTCLPRO-SAFE and KTCLPRO-SAFUL, depending on operating conditions.

Choosing the Right Kit

Référence	Utilisation
 KTCLPRO-SAFE	Basic kit for chloride determination.
 KTCLPRO-SAFUL	Version with an additional solution to facilitate reading when water pH is above 9, helping to bring the pH below 9.



Brief Test Procedure

The sample must be at room temperature: 18 to 25 °C.

1	Take sample	Take 20 mL of the water to be analyzed into the tube.
2	Add booster	Add 20 drops of BOOSTER SAFE.
3	Add indicator	Add exactly 10 drops of VERICHLOR SAFE, then swirl/mix.
4	Titrate	Add CC2 drop by drop, swirling between each addition. The mixture turns pink; continue until a bright pink-purple color appears. Count the drops of CC2.

Calculation of Result

$$\text{Chlorides (mg/L or ppm)} = (\text{number of CC2 drops} - 4) \times 5$$

Indicative conversion to sodium chloride (NaCl): multiply the Cl^- result by 1.6.

Key Points for Reliable Measurement

- **Below 10 mg/L** : the test reacts, but does not confirm zero concentration nor precisely quantify the 0–10 mg/L range.
- **AAbove150 mg/L** : if concentration exceeds the operating range, perform an appropriate dilution. Never exceed 44 drops of CC2; the indicated practical limit is approximately 200 mg/L.
- **Water with pH above 9** : use the neutralization procedure provided with the SAFE booster. Never use acid; follow the kit instructions, especially for checking pH.
- **Safety** : the indicator and booster are presented as non-hazardous. Nevertheless, respect the user instructions and safety guidelines specific to each reagent in the kit.

A practical solution for chloride control in process water, treatment water, and industrial applications.