

Conversion EC to Chloride

The value of the EC [mS/cm] is determined by 3 anions: Cl (chloride), HCO₃ (bicarbonate) en SO₄ (sulphate).

For EC values below roughly 2 mS/cm the relation between EC and chloride is not linear due to the possible presence of bicarbonate and sulphate. Above values of roughly 2 mS/cm chloride is dominant and the following relation can be used:

$$Cl \text{ (mg/l)} = 360 * EC \text{ (mS/cm)} - 450$$

for water of 25 °C. This formula is based on groundwater analysis in the Netherlands and is described in De Louw 2013.

A useful rule of thumb for EC>2 mS/cm is:

$$Cl \text{ (g/l)} = EC \text{ (mS/cm)} / 3$$