

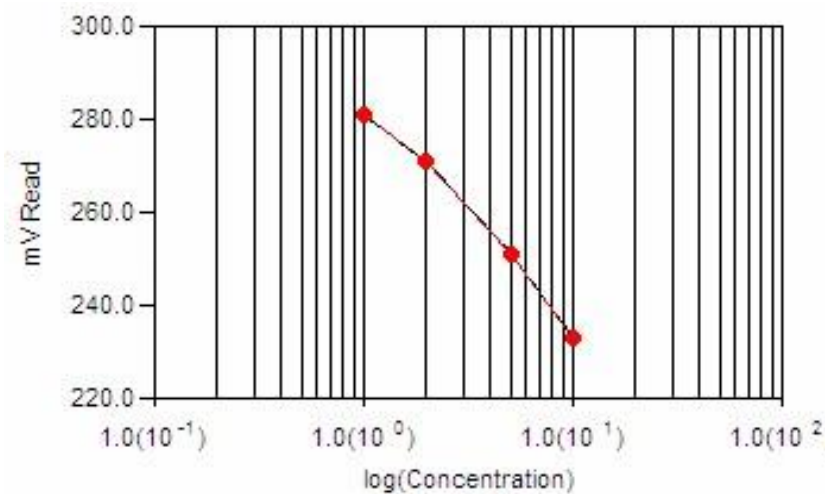
## Method Abstract #106

### Chloride by Direct Measure

**Scope and Application** This method determines the chloride concentration of water samples. This method is a variation of ASTM D 512 (C).

**Method Summary** This method involves the addition of an ionic strength adjuster ( $\text{NaNO}_3$ ) to samples which helps keep the background ionic strength high and stable in relation to the varying chloride concentrations. The concentration is then measured directly with a chloride ion selective electrode.

**Sample Titration Curve**



**Method Performance**

Parameter	Specification
Measuring Range*	0.05 – 35,500ppm
MDL**	0.05ppm
RSD @ 0.05ppm	5.0% or +/- 0.003ppm
RSD @ 10ppm	3.07% or +/- 0.31ppm
RSD @ 100ppm	1.55% or +/- 1.55ppm
RSD @ 1000ppm	1.06% or +/- 10.6ppm

\*Data for this measuring range was obtained using laboratory prepared standards formulated from potassium chloride. The measuring range may be increased by using auto-dilution.

\*\*The Method Detection Limit (MDL) was determined based on data obtaining a coefficient of variance better than 30%. Results may differ depending on laboratory practices and sample matrix.