Fluoride Half Cell ISE

The EDT directION Fluoride Half Cell ion selective electrode has a solid state Crystalline membrane and has no internal filling solution.

Response, stability and lifetime are therefore superior to any other make of Fluoride ISE available. It requires the use of a double junction reference electrode which has its outer chamber filled with Potassium Chloride. The electrode is designed for the detection and analysis of Fluoride ions in aqueous solutions and is suitable for use in the laboratory and in on line analyzers.

Please note that both the ISE and the reference electrode need to be placed in the standards or samples simultaneously and should not be more than around 10cm apart. The side filling cap of the double junction reference electrode should be open during measurements and closed during storage .

Potassium Chloride (4M) is an ideal outer filling solution for Fluoride analysis. The EDT Half Cell ISE can be used immediately but pre-soaking for 5 minutes in a 100 ppm Fluoride solution along with the double junction reference electrode is recommended.

The ionic strength of the standards and solutions should be kept constant between all standards and samples. This is achieved by the simple addition of an Ionic strength adjustment buffer (TISAB). No temperature correction is possible it is therefore important that all standards and samples should be measured at the same temperature to ensure that temperature effects are eliminated.

Begin calibration from the lowest concentration standard to avoid cross contamination. Calibration should cover the anticipated range of the samples. Rinse tips of both electrodes with de-ionised water between measurements and dab off excess water. When the response time or slope of your crystalline ISE reduces you can clean the tip with Methanol using a cotton bud.

To see a simple calibration please visit our website. EDT directION produce a full range of Stock Standards and Ionic Strength Adjustment Buffers (ISABs) to save valuable time and give confidence in the quality of your results.

Specifications

Cable Length	1M
Cap Diameter	16mm
Commodity Code	90279050
Concentration Range	0.02-1900ppm
Connector	BNC
Diameter	12mm
Endpoint Time	Typically 10-60 Seconds
Interferences	Hydroxide
Length	155mm
pH Range	4-8pH
Potential Drift	2mV Per Day
Reference Type	Requires Single Junction Reference Electrode
Resistance at 25°C	<2.5 Mohm
Temperature Range	5-50°C

Related Products

Double Junction Reference Electrode

Fluoride Standard Solution (500ml)

QP459 Portable Ion Meter

www.edt.co.uk/1221