PRODUCT INFORMATION

Reference Solutions for Electrolytic Conductivity

Calibration laboratory for length, electrical, mechanical, thermodynamic, and analytical measurands

DAR-Registration Number: DKD-K-06901

The salt content of aqueous salt solutions may be determined from their ***specific electrolytic conductivity***. The measurement of electrolytic conductivity is therefore applied for the determination and monitoring of salt concentration in aqueous solutions of technical and biological systems.

The measurement of electrolytic conductivity of water and solutions is based on the measurement of the resistance of the solution between the electrodes of a measuring cell.

The calibration of conductivity measuring devices is carried out by determination of the cell constant with traceable reference solutions of electrolytic conductivity.

Our reference solutions base on solutions of Potassium Chloride and are traceable to the national and international standards of National Metrology Institutes.

Our certified reference solutions for electrolytic conductivity at 25 °C are available in the following ranges with the given expanded measuring uncertainty (*k*=2):

1.3 to 2 µS/cm	***U* = 0.8%**
> 2 to 15 µS/cm	***U* = 0.5%**
> 15 to 100 µS/cm	***U* = 0.3%**
> 100 µS/cm to 150 mS/cm	***U* = 0.1%**

Additional information:

The reference solutions for electrolytic conductivity have to be used immediately after opening the bottle. The multiple use of reference solutions for electrolytic conductivity has to be avoided.

The unopened bottle of the reference solution for electrolytic conductivity (1 mS/cm to 150 mS/cm) is stable for approximately 2 years.
The unopened bottle of the reference solution for electrolytic conductivity (1.3 µS/cm to 1 mS/cm) is stable for approximately 3 months.

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