

Conductivity Quality Control Certificate

Nominal Specifications

Conductivity Standard Solution	Conductivity Standard 1413 $\mu\text{S/cm}$
Order Number(s)	51350092, 51350096

Conductivity Properties

Measured Electrolytic Conductivity ($\mu\text{S/cm}$)	1411 $\pm 1.5\%^*$ (25°C)
Lot Number	1E231F
Production Date	19 August 2019
Expiry Date	19 August 2021
Solution Substances	Potassium Chloride

*The value following the \pm symbol is the numerical value of the expanded uncertainty $U = k \cdot u_c$. U is determined from a combined uncertainty $u_c = 0.75\%$ and a coverage factor $k = 2$. The measurand is normally distributed, therefore the probability that the value of the measurand will lie within the stated range is approximately 95%.

Traceability

The electrolytic conductivity value stated on this certificate was determined by comparison a standard reference conductivity standard prepared by a calibration laboratory accredited by DAkkS** for electrolytic conductivity measurements according to ISO/IEC 17025 and ISO 17034. The conductivity measurements performed by this laboratory are validated by regular participation in national and international comparisons and so are traceable to international agreed and stated references according to IUPAC recommendations 2002.

**DAkkS (Deutsche Akkreditierungsstelle) are the national accreditation body for the Federal Republic of Germany. As such they are a signatory to the multilateral agreements of the European cooperation for accreditation (EA) and of the International Laboratory Accreditation Cooperation (ILAC). DAkkS laboratories regularly participate in international key comparisons that validate their measurements. This ensures international comparability, harmonization and equivalence of measurement capabilities.

Calibration Procedure	One point calibration	
Unit of Measurement	$\mu\text{S/cm}$	
Reference Material	CRM Conductivity Solution 1413 $\mu\text{S/cm}$	
Reference Material Lot Number(s)	12-4020	
Reference Material Specification	1411 $\pm 0.2\%$	

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Quality Manager
Peter Rowing