

Conductivity Quality Control Certificate

Nominal Specifications

Conductivity Standard Solution	Conductivity Standard 12.88 mS/cm
Order Number(s)	30323773, 51302050

Conductivity Properties

Measured Electrolytic Conductivity (mS/cm)	12.88 ± 1.5%* (25°C)
Lot Number	1E234D
Production Date	22 August 2019
Expiry Date	22 August 2021
Solution Substances	Potassium Chloride

*The value following the ± 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	mS/cm	
Reference Material	CRM Conductivity Solution 12.88 mS/cm	
Reference Material Lot Number(s)	12-4021	
Reference Material Specification	12.88 ± 0.2%	

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