



Material	83607.180
Material description	Conductivity standard 1.41 mS/cm (25°C; KCl)
Grade	
CAS Number	7447-40-7
Molecular formula	KCl
Molecular mass	74.55
Additional information	

Characteristics	Specifications
Conductivity (25°C)	1.39 - 1.43 mS/cm
Expanded uncertainty	± 0.03 (k=2; 95 %)
ISO 17034 accredited by BELAC	Accredit. N°: 542-RM
NIST traceable	Confirmed
Storage conditions (15°C to 25°C)	.

Signature

This document has been produced electronically and is valid without a signature.

Jessie Pijck, Head of Laboratory - Haasrode
VWR International bv; Geldenaaksebaan 464; BE-3001
Leuven; Belgium

Certified Reference Material ISO 17034



Accreditation N°: 542-RM
VWR International bv
Geldenaaksebaan 464
BE-3001 Leuven, Belgium
Coverage available on: www.belac.be

Additional information

Conductivity-method: Conductivity value is measured with a 5-ring conductivity measuring cell after 1-point calibration following the validated standard procedure. The expanded uncertainty relevant for the user contains contributions of stability over time and laboratory measurement uncertainties, using a coverage factor k=2 for a 95 % coverage probability.

Preparation and use: This reference material is prepared gravimetrically from potassium chloride and high purity water. It is intended to be used for calibrating conductivity measurement devices.

Accreditation: VWR International bv is accredited as reference material producer according to ISO 17034. The batch homogeneity has been proven by analyzing minimum 6 samples distributed over the entire production process.

The conductivity of this solution is traceable to and verified against primary Standard Reference Materials (SRM) from National Institute of Standards and Technology (NIST): SRM 999c.

This product is packed under nitrogen to sustain the shelf life. Maintenance of the nitrogen blanket after container has been opened is recommended. Store at +15°C to +25°C tightly closed in the original container and consume within 4 weeks after first opening.