Specification – Certified Reference Material

Volumetric Standards

Certified Reference Material for standardization of volumetric solutions

Accreditation:

ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-RM-15185-01-00

Merck KGaA, Darmstadt, Germany is accredited by the German accreditation authority as registered reference material producer (D-RM-15185-01-00) in accordance with **ISO 17034**.

Description of CRM: Volumetric Standards
Certified Reference Materials for standardization of volumetric solutions

Storage: +15°C to +25°C tightly closed in the original container

Analyte	Expiry date	Specification as mass fraction	Associated uncertainty*, $U=k\cdot u$ ($k=2$)
Potassium hydrogen phthalate	5 years	≥ 99.80 %	0.10 %
Benzoic acid	5 years	≥ 99.80 %	0.10 %
Iron(II)ethylenediammonium sulfate	2 years	≥ 99.50 %	0.35 %
Potassium dichromate	5 years	≥ 99.90 %	0.10 %
Potassium iodate	5 years	≥ 99.70 %	0.10 %
Sodium carbonate	5 years	≥ 99.80 %	0.10 %
Sodium chloride	5 years	≥ 99.85 %	0.10 %
di-Sodium oxalate	5 years	≥ 99.70 %	0.10 %
Tris(hydroxymethyl)amino-methane	5 years	≥ 99.85 %	0.10 %
Zinc	5 years	≥ 99.90 %	0.10 %
Calcium carbonate	5 years	≥ 99.90 %	0.10 %

* The uncertainty can vary depending on the primary reference material.

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Metrological traceability:	Directly traceable to the corresponding / suitable primary standard NIST SRM *NIST: National Institute of Standards and Technology, Gaithersburg, USA*
Measurement method:	The certified mass fraction was determined by potentiometric titration.
Intended use:	These volumetric standards are intended for standardisation of volumetric solutions in accordance / relation to the chapter reagents of the Pharmacopoeia (Ph. Eur., USP where applicable).

Detailed information is provided by the certificates and the certification report on our website.

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