



# Specification

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1.09122.1000 Potassium permanganate solution standardised against oxalate  $c(\text{KMnO}_4) = 0.02 \text{ mol/l}$  (0.1 N) Titripur® Reag. USP

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Form	liquid
Amount-of-substance concentration	0.01990 - 0.02010 mol/l
Measurement uncertainty	+/- 0.00006 mol/l
Traceability	NIST SRM

Accreditation: This volumetric solution is analyzed by our calibration laboratory D-K-15185-01-00 which is accredited according to DIN EN ISO/IEC 17025 for analysis of amount-of-substance concentrations in volumetric solutions by DAkkS (Deutsche Akkreditierungsstelle - German National Accreditation Body). The accreditation certificate can be found at [www.sigmaldrich.com/ISO17025](http://www.sigmaldrich.com/ISO17025).

The concentration is determined by volumetric titration and refers to 20°C.

The amount-of-substance concentration of this volumetric solution is traceable to a primary standard reference material (SRM) from the National Institute of Standards and Technology, Gaithersburg, USA (NIST SRM 8040 di-sodium oxalate) by means of volumetric standard di-sodium oxalate (article number 1.02407), certified reference material according to ISO 17034, analyzed by our accredited calibration laboratory of Merck KGaA, Darmstadt, Germany according to DIN EN ISO/IEC 17025. The uncertainty is expressed as expanded measurement uncertainty with a coverage factor  $k=2$  covering a confidence level of 95%.

Note: The titer is a correction factor to correct for variations of the volumetric solution, the titration equipment, the temperature and other laboratory conditions. For correct titration results it is recommended to determine a titer with the laboratory specific equipment and under laboratory specific conditions directly after opening a new bottle and at regular time intervals.

Ayfer Yildirim

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Responsible laboratory manager quality control

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