



# Specification

4.80160.0000 Potassium permanganate solution  $c(\text{KMnO}_4) = 0.05 \text{ mol/l}$  (0.25 N) Titripur®

Specification	
Form	liquid
Amount-of-substance concentration	0.04975 - 0.05025 mol/l
Measurement uncertainty	+/- 0.00015 mol/l
Traceability	NIST SRM

The amount-of-substance concentration of this volumetric solution is analyzed by our quality control laboratory of Merck KGaA, Darmstadt, Germany according to DIN EN ISO/IEC 17025.

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

Responsible laboratory manager quality control

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