



Specification

1.09910.0001 Iodine solution for 1000 ml, $c(I_2) = 0.05 \text{ mol/l}$ (0.1 N) Titrisol®

Concentration after dilution to 1 liter: $c(I_2) = 0.05 \text{ mol/l}$

	Specification
Amount-of-substance concentration	0.05000 mol/L

The concentration of this solution was determined with sodium thiosulfate standard solution (article number 1.09147) standardized against volumetric standard potassium iodate (article number 1.02404). The determined titer at 20°C was 1.000 with an expanded measurement uncertainty of ± 0.004 ($k=2$ coverage factor for 95% coverage probability). The certified value is traceable to primary standard NIST SRM 136f (NIST: National Institute of Standards and Technology, USA) by means of volumetric standard potassium iodate, measured in the accredited calibration laboratory of Merck KGaA, Darmstadt, Germany in accordance to DIN EN ISO/IEC 17025.

Ayfer Yildirim

Responsible laboratory manager quality control

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