



Scharlab S.L.

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CERTIFICATE OF ANALYSIS

Product: **Iodine**, solution 0,01 mol/l (0,02 N)

Batch 17421701

YO0025

Quality release date 01/09/2016

Expiry date 9/2019

Analysis

Batch value

Specifications

factor

1,000

0,995 - 1,005

uncertainty $\pm 0,001$

1 ml = 0,002538 g I₂

Preparation

This volumetric solution is prepared using gravimetric and volumetric procedures.

Traceability

This solution was checked using a sodium thiosulfate standard solution, that was also checked against Scharlau's potassium iodate volumetric standard. This Scharlau's volumetric standard is traceable to Standard Reference Material from NIST SRM 136f potassium dichromate (oxidimetric standard).

Uncertainty

It characterises the dispersion of the values that could be attributed to the mesurand. The limits of the uncertainty are given at a confidence level of 95% (k=2).

Measurement

The batch value is determined by means of potentiometric method (Red-ox titration) at 20°C.

The equipments involved in the analysis of this solution are validated periodically.

Batch value certified at the time of measurement.

Storage and use

For volumetric titration.

If the product is stored and unopened, this solution is stable for 3 years from the date of manufacturing.

Keep tightly closed at room temperature. Avoid exposure to light and moisture.

We suggest shaking the bottle before use in order to homogenize the content.

The titre should be checked periodically by the user.