



**Scharlab S.L.**

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## CERTIFICATE OF ANALYSIS

Product: **Potassium permanganate, solution 0,2 mol/l (1 N)**  
**PO0335**

Batch 16707301  
Quality release date 22/10/2015  
Expiry date 10/2018

Analysis	Batch value	Specifications
factor	1,000	0,999 - 1,001

uncertainty  $\pm 0,001$

1 ml = 0,0316 g  $\text{KMnO}_4$

### Preparation

This volumetric solution is prepared using gravimetric and volumetric procedures.

### Traceability

This solution was checked using a Scharlau's sodium oxalate volumetric standard. This Scharlau's volumetric standard is traceable to Standard Reference Material from NIST SRM 8040 sodium oxalate (reductometric 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.