

**Scharlab S.L.**

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**CERTIFICATE OF ANALYSIS**

|                 |  |                       |            |
|-----------------|--|-----------------------|------------|
| Product         | Perchloric acid, solution in acetic acid 0,1 mol/l (0,1 N) | Batch                 | 20348401   |
| <b>AC1765</b>   |  | Quality release date  | 24/11/2019 |
|                 |  | Expiry date           | 11/2022    |
| <b>Analysis</b> | <b>Batch value</b>   | <b>Specifications</b> | <b>±U</b>  |
| Factor          | 1,000  | 0,995 - 1,005         | 0,001      |
| Water (K.F.)    | 0,1159 %   | 0,1 - 0,2             |            |

**Preparation**

This volumetric solution is prepared using gravimetric and volumetric procedures.

1 ml = 0,01005 g HClO<sub>4</sub>

**Traceability**

This solution was checked using a Scharlau's tris(hydroxymethyl)-aminomethane volumetric standard. This Scharlau's volumetric standard is traceable to Standard Reference Material from NIST SRM 723e 2-amino-2-(hydroxymethyl)-1,3-propanediol (Acimetric 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 (acidimetric) 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.