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# CERTIFICATE OF ANALYSIS

## PO0131_25390801/1

| | | | |
|---|---|---|---|
| Product | Potassium hydrogen phthalate, secondary standard for volumetric titrations, Titrasure® | Batch | 25390801 |
| | | Quality release date | 11/12/2024 |
| **PO0131** | | Expiry date | 12/2029 |

| Analysis | Batch value | Specifications |
|---|---|---|
| Assay (Acidimetric, on dried sample) | 99,97 % | 99,95 - 100,05 |
| Identity (IR-Spectrum) | passes test | passes test |
| Insoluble in water | < 0,0050 % | ≤ 0,005 |
| pH (0,05 mol/l, H2O, 25 ºC) | 4,00 | 4,00 - 4,02 |
| Chlorine compounds (as Cl) | 0,001 % | ≤ 0,003 |
| Chlorides (Cl) | < 0,0005 % | ≤ 0,002 |
| Total nitrogen (as N) | < 0,001 % | ≤ 0,001 |
| Heavy metals (as Pb) | < 5 ppm | ≤ 5 |
| Iron (Fe) | < 5 ppm | ≤ 5 |
| Sodium (Na) | 0,002 % | ≤ 0,005 |
| Sulfur compounds (as S) | < 0,002 % | ≤ 0,002 |

Meets ACS specifications

**Preparation**
Dried at 120ºC for 2 hours.

**Traceability**
This standard was checked using a Sodium Hydroxide standard solution, that was also checked against Standard Reference Material from NIST, SRM 84x Potassium hydrogen phthalate.

**Uncertainty**
The uncertainty of the analytical method is ±0,05%.
It characterises the dispersion of the values that could be attributed to the dispersion of the analytical results due to the random errors occurred in the stages of the analytical procedure.

**Measurement**
The batch value is determined by means of potentiometric method (acidimetric).

**Storage and use**
For standardization of volumetric solutions.
The volumetric standard must be dried at 120ºC for 2h and cooled in a desiccator before use.
If the product is stored and unopened, this standard is stable for 5 years from the date of manufacturing.
The standard must be kept tightly closed at room temperature. Avoid exposure to light and moisture.
For laboratory use only

Results marked with # are out of specifications.
This certificate does not exempt the user from checking the results upon receipt of the goods.
Any copy of our CoA may be obtained from our website at www.scharlab.com

Sara Garcia Maldonado
Laboratory Technician