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CERTIFICATE OF ANALYSIS**AC0566_22587601/1**

Product Benzoic acid, secondary standard for volumetric titrations, Titrasure®

Batch 22587601

AC0566

Quality release date 09/03/2022

Expiry date 03/2027

Analysis	Batch value	Specifications
Assay (on dried sample)	99,74 %	≥ 99,5
Melting point	122,40 °C	122 - 123°C
Insoluble in CH ₃ OH	< 0,0050 %	≤ 0,005
Chlorine compounds (as Cl)	< 0,0010 %	≤ 0,005
Sulfur compounds (as S)	< 0,002 %	≤ 0,002
Heavy metals (as Pb)	< 5 ppm	≤ 5
Substances reducing KMnO ₄	passes test	passes test
Residue on ignition	< 0,0050 %	≤ 0,005

Meets ACS specifications

Preparation

Dried at room temperature for 48 hours in a vacuum in a desiccator.

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 room temperature for 48h in a vacuum desiccator before use. Drying of this material at high temperatures is not recommended due to the possibility of decomposition.

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.