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CERTIFICATE OF ANALYSIS**HI0302_24930601/1****Product** Iron, standard solution 1000 mg/l Fe for AA (iron(III) nitrate nonahydrate in nitric acid 0,5 mol/l)**Batch** 24930601**Quality release date** 25/06/2024**Expiry date** 06/2027**HI0302**

Analysis	Batch value	Specifications	±U
Concentration	1004,4 mg/L	995,0 - 1005,0	3

Preparation

This atomic absorption standard has been prepared using gravimetric and volumetric procedures.

Composition per litre is 7,23g Iron (III) nitrate nonahydrate in Nitric acid 0,5 mol/l

Traceability

This standard is traceable to Standard Reference Material from NIST.

SRM 915b Calcium carbonate

Uncertainty

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

Measurement

The batch value is determined by back complexometry titration at 20°C, by means of spectrophotometric-end-point.

Batch value certified at the time of measurement.

Storage and use

For AA spectrophotometer calibration

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

Once the bottle is opened, keep tightly closed at room temperature. Avoid exposure to light.

We suggest rejecting the solution six months after opening

This solution should be checked periodically by the user.

For laboratory use only