



Scharlab S.L.

Tel. int.: +34-93-7151811

Email: scharlab@scharlab.com

CERTIFICATE OF ANALYSIS

Product: **Cobalt, standard solution 1000 mg/l Co for AA**
CO0012 (cobalt nitrate in nitric acid 0,5 mol/l)

Batch 16672901
Quality release date 08/10/2015
Expiry date 10/2018

Analysis	Batch value	Specifications
concentration	1002 mg/l	995 - 1005 mg/l
uncertainty ± 5 mg/l		

This standard solution is traceable to

Standard Reference Material from NIST.

Preparation

This atomic absorption standard has been prepared using gravimetric and volumetric procedures.
Composition per litre is 4,94 g Cobalt (II) nitrate hexahydrate 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 direct 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.