

**Scharlab S.L.**

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CERTIFICATE OF ANALYSIS

Product	Manganese, standard solution 1000 mg/l Mn for AA (manganese nitrate in nitric acid 0,5 mol/l)	Batch	18204901
		Quality release date	13/07/2017
MA0111		Expiry date	07/2020
Analysis	Batch value	Specifications	
Concentration	1000 mg/L	995,0 - 1005,0	

Preparation

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

Composition per litre is 4,57 g Manganese nitrate tetrahydrate 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.