



**Scharlab s.l.**  
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## CERTIFICATE OF ANALYSIS

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Product:	<b>Tin, standard solution 1000 mg/l Sn for AA (tin(IV) chloride in hydrochloric acid 5 mol/l)</b>	Batch 11304101
<b>ES0061</b>		Test date 20/11/2010
		Shelf life 11/2013

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Analysis	Batch value	Guaranteed value
composition	995 mg/l	995 - 1005 mg/l
uncertainty $\pm 5$ mg/l		

### Preparation

This atomic absorption standard has been prepared using gravimetric and volumetric procedures. Composition per litre is 2,19 g Tin (IV) chloride in Hydrochloric acid 5 mol/l

### Traceability

This standard is traceable to Standard Reference Material from NIST. SRM 3161a Tin Standard Solution

### Uncertainty

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

### Measurement

The batch value is determined by ICP spectrophotometric method. 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.

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This certificate does not release the user from the reception control.

This certificate is an electronic copy of the certificate available in our laboratory, and does not require signature

If you need further details, please call at our factory or contact our local distributor.

You can get a copy of any of our COA from our web site: [www.scharlau.com](http://www.scharlau.com)