



# Sulphamic Acid OAS Cat No B2017 - Certificate No 2938

# **General**

This Organic Analytical Standard (OAS) consists of a purified and homogeneous batch of Sulphamic Acid for use as a routine working microanalytical standard for the determination of Hydrogen, Nitrogen, Oxygen and Sulphur.

# **Certified Values and Uncertainty**

The uncertainty in the certified value is expressed as expanded uncertainty, U, at 95% confidence and is calculated in accordance with ISO/IEC17025 according to GUM (Guidelines to Uncertainty in Measurement). Confidence limits include those due to sampling variation, weighing, calibration and measurement errors. The certified values are based upon the results of 8 to 13 determinations.

The certified values for Hydrogen and Nitrogen were determined by elemental analyser calibrated to Nicotinic Acid 148 from National Institute of Standards and Technology (NIST), Maryland, USA.

The certified values for Oxygen were determined by elemental analyser calibrated to Cystine 143d from National Institute of Standards and Technology (NIST), Maryland, USA.

The certified values for Sulphur were determined by elemental analyser calibrated to Cystine 143d from National Institute of Standards and Technology (NIST), Maryland, USA.

Element	Certified Value	Uncertainty	Theoretical
	(% w/w)	(+/- %)	%(W/W)
Hydrogen	3.08	0.08	3.11
Nitrogen	14.39	0.49	14.43
Oxygen	49.64	0.59	49.44
Sulphur	33.16	0.18	33.02

### **Expiration of Certification**

The certification of this OAS is valid until 16-Jan-27 within the measurement uncertainties specified.

## Storage and Use

This OAS should be stored at temperatures between 20 °C to 25 °C and should be kept tightly sealed away from light and moisture. It is non-hygroscopic under normal conditions and can be used without preliminary drying.

## **Certification Information**

The technical aspects involved in the preparation, certification and issuance of this (In)Organic Analytical Standard (IAS/OAS) were carried out at Elemental Microanalysis Limited, Okehampton, Devon, EX20 1UB, UK, Tel +44 1837 54446, Fax +44 1837 54544, Email info@microanalysis.co.uk.

for and on behalf of Elemental Microanalysis Limited



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