

# Certificate of Analysis

Trifluoroacetanilide OAS  
Cat No B2018 - Certificate No 14967

## General

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

## 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 1 to 16 determinations.

The certified values for Carbon, Hydrogen and Nitrogen were determined by elemental analyser calibrated to Acetanilide 141e from National Institute of Standards and Technology (NIST), Maryland, USA.

<i>Element</i>	<i>Certified Value</i> (% w/w)	<i>Uncertainty</i> (+/- %)	
Carbon	50.83	0.19	
Hydrogen	3.12	0.04	
Nitrogen	7.35	0.08	
Oxygen	8.46		Theoretical
Fluorine	30.13		Theoretical

## Expiration of Certification

The certification of this OAS is valid until 25-Apr-26 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

Jon Davies  
Technical Director