

Organic Compounds Standard Solutions

for TOC, TC, COD and UV254 analyzers

DESCRIPTION

Organic compounds are molecules that are composed of carbon atoms. The TOC, TC, COD and UV254 analyzer's analytical methods of measuring the organic content of a sample are all different and unique. Using standard solutions, the analyzers are calibrated to perform an analysis on the organic compounds.

The standards are prepared gravimetrically from high purity traceable raw materials and diluted with filtered (0.2µm) high purity water (18.2 MΩ/cm) using class A glassware. All balances are regularly calibrated with analytical weight sets traceable to primary weights.

3S Analyzers offers a variety of standard solutions for the common chemical parameters in drinking water, wastewater, environmental applications and power industry. Standard solutions are used to calibrate the TOC, TC, COD, and UV254 analyzers used to measure organic content in the sample.

APPLICATIONS

- Standard solutions for calibration, verification and automatic function. Standards are often used to verify an analyzer's calibration for both laboratory and online instruments.
- Test performance specifications of an instrument.
- Quality control.
- Calibration curve for the TOC, TC, COD and UV254 analyzers.
- Troubleshooting the analytical system

FEATURES

The packaging and the label on the bottles is in accordance to ISO Guidelines and covers product number, article description, lot number, expiration date and safety data information. Standards are delivered in 500 mL or 1.0 L HDPE bottles. (3S Analyzers can also manufacture other volumes and concentrations when requested).



STOCK SOLUTIONS OR READY TO USE

DILUTED SOLUTIONS

Many 3S Analyzers standard solutions are at suitable concentrations and can be used directly out of the bottle. In this case, the standard is ready to use for calibration or verification and tested the same way as a typical sample.

Diluted standard solutions of lesser concentration are prepared from concentrated standard stock solutions. When a diluted standard is needed because of the measurement range required or for stability reasons of the standard, dilutions must be prepared using high quality deionized water accordingly to the formula:

$$C1 \cdot V1 = C2 \cdot V2$$

Although concentrated standard stock solutions are typically stable for many months, most diluted standards should not be considered stable and should be used immediately after preparation and discarded after use.

CERTIFIED STANDARDS

A Certificate of Traceability is available upon request. Each certified solution is provided with this certificate which guarantees quality, traceability and accuracy.

ORDERING INFORMATION

Standard Solutions - Ready to Use

These solutions are ready to use right out of the package. A Certificate of Traceability is included with each purchase of Certified solutions. For Certified solutions, exceptional analytical KHP and Ultrapure water is used with quality control in place to limit contamination.

ANALYZER	PARAMETER	PART NUMBER	CONCENTRATION	VOLUME
TOC	TOC STANDARD	A46TOCST01	1,000 ppm	1.0 L
		A46TOCST025	2,500 ppm	
		A46TOCST05	5,000 ppm	
		A46TOCST10	10,000 ppm	
	CERTIFIED TOC STANDARD	A46TOCST01C	1,000 ppm	500 mL or 1.0 L
		A46TOCST05C	5,000 ppm	
A46TOCST10C		10,000 ppm		
TC	TC STANDARD	A46TCST01	1,000 ppm	1.0 L
		A46TCST05	5,000 ppm	
COD	COD STANDARD	A46CODST01	1,000 ppm	
		A46CODST025	2,500 ppm	
		A46CODST05	5,000 ppm	
		A46CODST10	10,000 ppm	
UV254	UV254 STANDARD	A46UVKHP01	1,000 m ⁻¹ (abs)	
	CERTIFIED UV254 STANDARD	A46UVKHP01C	1,000 m ⁻¹ (abs)	

Predosed mix kits

A kit for the preparation of the Mother Standard Solutions. Predosed powder and instructions for preparation are included with every purchase. Customer only needs to mix the powder with DI water to make Standard Solutions.

ANALYZER	PARAMETER	PART NUMBER	CONCENTRATION	VOLUME
TOC	TOC STANDARD	TOC-STDKIT-1000M-1	1,000 ppm	1.0 L
		TOC-STDKIT-5000M-1	5,000 ppm	
TC	TC STANDARD	TC-STDKIT-1000M-1	1,000 ppm	
		TC-STDKIT-5000M-1	5,000 ppm	
COD	COD STANDARD	COD-STDKIT-1000M-1	1,000 ppm	
		COD-STDKIT-5000M-1	5,000 ppm	
UV254	UV254 STANDARD	UV254-STDKIT-1000-1	1,000 m ⁻¹ (abs)	

3S Analyzers is able to formulate more specific concentrations or volumes by request.