



## Organic Standards

- Designed for GC, GC/MS, LC, and LC/MS
- Manufactured by experienced chemists to ensure the highest quality standards



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Spex CertiPrep is an  
Antylia Scientific company.  
Find out more at [antylia.com](http://antylia.com).



# Organic Standards

Spex CertiPrep was founded in 1954 to provide superior Certified Reference Materials (CRMs) for spectroscopy and chromatography. Since that time, we have made it our business to supply CRMs for many different types of instrumentation. We offer a full range of organic standards for GC, GC/MS, LC, and LC/MS that can be used in laboratories around the world. Custom organic standards are also available. We have built our reputation by providing chemists and environmental scientists products that exhibit quality, reliability and convenience. Your science is our passion®.

## DQS and A2LA Stamp of Approval

- Certified to DQS to ISO 9001:2015
- Accredited by A2LA to ISO/IEC 17025:2017 and ISO 17034:2016

## Features of Spex CertiPrep Organic Standards

- Over 2,500 different single-component standards available in concentrations of 1,000 µg/mL. Custom standards at higher or lower concentrations are also available
- Standards packaging ranging from 2 mL amber pre-scored glass ampules up to 1 L bottles
- We include a 2 mL pour off vial for storing your standard
- A label with an adhesive back is supplied for documentation in your laboratory notebook
- Wide selection of stock multi-component standards available
- Concentration and stability of components guaranteed
- Isotopically labeled standards available for internal standards, surrogate and isotope dilution analysis
- Custom packaging readily available
- Custom blends manufactured upon request, based on your individual needs



Organic Certified Reference Materials



Designed for use with GC, GC/MS, LC, LC/MS



Supplied with a Certificate of Analysis



ISO Accredited Standards

# Organic Standards

## Organic standards can be used for:

- GC Gas Chromatography
- GC/MS Gas Chromatography/Mass Spectrometry
- LC Liquid Chromatography
- LC/MS Liquid Chromatography/Mass Spectrometry

## Value of Spex CertiPrep

- Provide the highest quality standards available
- Uncertainty of standards is reported on the Certificate of Analysis
- Weights used are traceable to NIST
- Manufactured by experienced chemists to ensure highest quality standards

## Organic Standards

### Cannabis Standards

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While the legalization of cannabis, for both medicinal and recreational purposes, has been gaining speed, legislation and regulation has not necessarily kept pace. Even so, out of a drive for self-regulation and significant consumer safety concerns, many producers and manufacturers are turning to testing labs in order to ensure that their products are of high quality and free of chemical contaminants. We offer ISO 17034 Certified Reference Materials (CRMs) for all of the common contaminants such as pesticide residues, residual solvents and heavy metals, as well as qualitative analysis CRMs such as terpenes. As the industry demands change and regulations are put into place, we will continually update our product offering.

### Bisphenol-A (BPA) and Phthalate Standards

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Bisphenol-A (BPA) can be found in various products including toys, bottles and epoxy resins. Over the past few years, concerns have grown regarding the safety of BPA and its potential health effects that include reproductive and genetic effects. Similarly, phthalates are primarily used in the production of plastic compounds and plastic containing products. Studies have linked phthalates to childhood asthma, reproductive disorders, diabetes, obesity, and genetic effects. We offer a full line of BPA and phthalate standards.

# Organic Standards

## Organic Standards (continued)

### US EPA Drinking Water Methods

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Drinking water laboratories use US EPA Drinking Water Methods 521, 525, 527, 529, and 535 to determine levels of nitrosamines (Method 521), organic compounds (Method 525), selected pesticides and flame-retardant compounds (Method 527), explosives and related compounds (Method 529), and chloroacetanilide and other acetamide herbicide degradates (Method 535) in drinking water. Spex CertiPrep offers standards for these US EPA methods.

### Standards for Wine

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Our comprehensive list of certified standards are designed to help regulate the chemical interactions that play key roles in wine spoilage such as cork taintage. We manufacture our standards for wine from the highest purity starting materials and the highest grade of solvents available to guarantee superior grade standards.

### Custom Standards

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At Spex CertiPrep, we stock thousands of high purity components for use in organic and organic certified reference materials. These are available as single-component standards or blends. If you do not see a stock product that suits your needs, our chemists can prepare any multi-component standard for you. Send us your list of components, concentrations and matrices and our laboratory will confirm compatibility and stability.

## Organic Certificate of Analysis

Every accredited manufacturer of Certified Reference Materials (CRMs) supplies a Certificate of Analysis with their products. ISO Guide 31 and ISO 17034 outline the information required for a Certificate of Analysis. In order to comply with the ISO standards, an accredited CRM manufacturer must more than a dozen informational and analytical values such as certifying bodies, material descriptions, intended use, instructions for use, homogeneity, stability, certified values and their uncertainty, and traceability. However, not all certificates are alike. We know because Spex CertiPrep has been supplying the most comprehensive certificate in the industry for years. Many other companies have followed, but no one gives you the information you get from us. We have highlighted why our certificate is the best and what you should look for in a Certificate of Analysis (see example on the following page).

# Organic Standards

**spex**  
certiprep

**Catalog Number:** S-2455  
**Description:** Methyl-tert-butyl ether  
**Matrix:** Methanol (Purge & Trap Grade)

**Lot No.** TS170921015  
**Ship Date:** 9-22-2020  
**Expiration Date:** 9-22-2021

The **SpexOrganics**® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC/MS, LC, and LC/MS. It can be employed in US EPA, ASTM and other methods relevant to the certified properties listed below:

**Certified Compounds:**

Compound	CAS #	Labeled	Purity	Certified	Uncertainty
Methyl-tert-butyl ether	1634-04-4	1,000 µg/mL	99.8%	1,001 µg/mL	± 36 µg/mL

**Final Solution Verification:**  
Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NIST Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short-term and long-term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at CRMSales@antylia.com.

Date of Certification: \_\_\_\_\_ Certifying Office: Shannon - Nove

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Spex Certificate is accredited by A2LA for Inorganic and Organic Certified Reference Materials as complying with the requirements of ISO/IEC 17025 and ISO 17034 with the most comprehensive scope in the industry.

Includes factors associated with the manufacturing process, as well as homogeneity and stability.

Compound purity taken into account when determining certified concentration.

Purity of starting material, verified in our laboratory.

Instrumentation verification on all standards.

Traceable to NIST.

Signed by Spex CertiPrep's Organic Operations Manager.

Stamped with month and year of certification.

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