

CERTIFIED  
REFERENCE  
MATERIALS



## ORGANIC

SPEX CertiPrep is the industry leader for over 60 years in the CRM marketplace meeting the needs of laboratories worldwide with innovation and research.



Accredited by A2LA for ISO 17025 and Guide 34, and Certified by UL-DQS for ISO 9001.

# PHARMACEUTICAL RESIDUAL SOLVENT STANDARDS

In the pharmaceutical industry, the guidelines set by the International Conference on Harmonization (ICH) and by United States Pharmacopeia (USP) and European Pharmacopeia (EP) mandate that manufacturing solvents have to be regulated due to their toxic and/or environmentally hazardous nature. For this industry, SPEX CertiPrep has created Pharmaceutical Residual Solvent Certified Reference Materials (CRMs) designed exclusively for GC, GC/MS, HPLC, and HPLC/MS analyses. These standards are made from the highest purity starting materials and the highest grade of solvents available to guarantee superior grade standards. The standards then go through a rigorous QC process where a senior chemist approves the standards. This guarantees the standards are accurate and stable at the stated concentrations for all the components. In addition, all standards are supplied with a detailed comprehensive Certificate of Analysis. The back of this flyer outlines some of the available Pharmaceutical Residual Solvent Standards offered by SPEX CertiPrep. For a custom standard quote, please contact your local sales representative for further information.

### n UL and A2LA Stamp of Approval

- Quality system complies with ISO 9001:2008 — Registered with UL.
- Standards manufactured to meet the requirements of ISO 17025:2005 and ISO Guide 34-2000 — Accredited by A2LA.

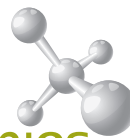
### n Instrumentation used with our SPEXOrganics

- GC, Gas Chromatography (FID, ECD, PID, TCD).
- GC/MS, Gas Chromatography/Mass Spectrometry (EI, CI).
- HPLC, High-Performance Liquid Chromatography.
- HPLC/MS, High-Performance Liquid Chromatography/Mass Spectrometry.

### n Features of SPEXOrganics

- Over 2,000 different single-component standards available in concentrations of 100 and 1,000µg/mL. Custom standards at higher or lower concentrations are also available.
- Standards packaged in 1.2mL ampules, up to 1L bottles.
- Wide selection of stock multi-component standards available. Visit our website for further details.
- Concentration of components guaranteed.
- Stability of each standard guaranteed.
- Isotopically labeled standards available for Internal Standard, Surrogate and Isotope Dilution analysis.
- Custom packaging readily available.
- Custom blends manufactured upon request based on your individual needs.

SPEXOrganics



### n Value of SPEXOrganics

- SPEX CertiPrep provides the highest-quality standards available.
- Impurities in standard are assessed by GC/MS to ppm levels and outlined in our Certificate of Analysis.
- Uncertainty of standard is reported on the Certificate of Analysis.
- Weights used are traceable to NIST.
- Manufactured by chemists having an average of 20 years of experience to ensure highest quality.



SPEX CertiPrep®

Your Science is Our Passion.®

# PHARMACEUTICAL RESIDUAL SOLVENT Standards

Each standard is at 1000 µg/mL in Methanol

Part #	Compound
S-140	Acetone
S-145	Acetonitrile
S-288	Anisole
S-610	1-Butanol
S-615	2-Butanol
S-620	2-Butanone
S-635	Butyl acetate
S-1572	1,2-Dimethoxyethane
S-1597	N,N-Dimethylacetamide
S-1620	Dimethylformamide
S-1715	1,4-Dioxane
S-1885	Ethanol
S-1900	Ether
S-1910	2-Ethoxyethanol
S-1920	Ethyl acetate
S-4279	Ethyl formate
S-2200	2-Hexanone
S-2274	Isobutyl acetate
S-2305	Isopropyl acetate
S-3893	Methyl acetate
S-2579	3-Methyl-1-butanol
S-4238	2-Methyl-1-butanol
S-2600	4-Methyl-2-pentanone
S-2590	1-Methyl-2-pyrrolidinone
S-2565	Methyl sulfoxide
S-2722	Nitromethane
S-2980	1-Pentanol
S-3160	1-Propanol
S-3167	2-Propanol
S-3204	Propyl acetate
S-3240	Pyridine
S-3460	Tetrahydrofuran
S-3877	Tetramethylene sulfone
USP-SOL-A	Kit of all above singles

Each standard is at 1000 µg/mL in Methanol

Part #	Compound
S-405	Benzene
S-750	Carbon tetrachloride
S-810	Chlorobenzene
S-865	Chloroform
S-1015	Cyclohexane
S-1380	1,2-Dichloroethane
S-1390	1,1-Dichloroethene
S-1394	cis-1,2-Dichloroethene
S-1400	trans-1,2-Dichloroethene
S-1940	Ethylbenzene
S-2125	n-Heptane
S-2190	n-Hexane
S-2315	Isopropylbenzene
S-2455	Methyl-tert-butyl ether
S-2470	Methylcyclohexane
S-2480	Methylene chloride
S-2975	n-Pentane
S-3464	1,2,3,4-Tetrahydronaphthalene
S-3505	Toluene
S-3605	1,1,1-Trichloroethane
S-3615	Trichloroethene
S-3830	m-Xylene
S-3835	o-Xylene
S-3840	p-Xylene
USP-SOL-B	Kit of all above singles

1000 µg/mL in DI Water

Part #	Compound
S-2380	Methanol

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