



# Analytical Standards for Pharmaceutical Residual Solvents

- Designed for GC, GC/MS, HPLC, and HPLC/MS
- Made from the highest purity starting materials
- Guaranteed stable and accurate



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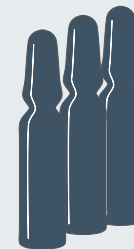
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## Analytical Standards for Pharmaceutical Residual Solvents

In the pharmaceutical industry, the guidelines set by the International Conference on Harmonization (ICH), United States Pharmacopeia (USP) and by 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 analysis. 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 stable and accurate at the stated concentrations for all components. In addition, all standards are supplied with a detailed, comprehensive Certificate of Analysis.



Organic Certified Reference Materials



For use with GC, GC/MS, HPLC, and HPLC/MS



Supplied with a Certificate of Analysis



ISO Accredited Standards

# Pharmaceutical Residual Solvents Standards

Compound	CAS #	Concentration	Volume	Matrix	Part #
Acetone	67-64-1	1,000 µg/mL	1 mL	Methanol-P&T	S-140
Acetonitrile	75-05-8	1,000 µg/mL	1 mL	Methanol-P&T	S-145
Anisole	100-66-3	1,000 µg/mL	1 mL	Methanol	S-288
1-Butanol	71-36-5	1,000 µg/mL	1 mL	Methanol-P&T	S-610
2-Butanol	78-92-2	1,000 µg/mL	1 mL	Methanol-P&T	S-615
2-Butanone	78-93-3	1,000 µg/mL	1 mL	Methanol-P&T	S-620
Butyl acetate	123-86-4	1,000 µg/mL	1 mL	Methanol-P&T	S-635
1,2-Dimethoxyethane	110-71-4	1,000 µg/mL	1 mL	Methanol-P&T	S-1572
N,N-Dimethylacetamide	127-19-5	1,000 µg/mL	1 mL	Methanol-P&T	S-1597
Dimethylformamide	68-12-2	1,000 µg/mL	1 mL	Methanol-P&T	S-1620
1,4-Dioxane	123-91-1	1,000 µg/mL	1 mL	Methanol-P&T	S-1715
Ethanol	64-17-5	1,000 µg/mL	1 mL	Methanol-P&T	S-1885
Ether	60-29-7	1,000 µg/mL	1 mL	Methanol-P&T	S-1900
2-Ethoxyethanol	110-80-5	1,000 µg/mL	1 mL	Methanol-P&T	S-1910
Ethyl acetate	141-78-6	1,000 µg/mL	1 mL	Methanol-P&T	S-1920
Ethyl formate	109-94-4	1,000 µg/mL	1 mL	Methanol-P&T	S-4279
2-Hexanone	591-78-6	1,000 µg/mL	1 mL	Methanol-P&T	S-2200
Isobutyl acetate	110-19-0	1,000 µg/mL	1 mL	Methanol-P&T	S-2274
Isopropyl acetate	108-21-4	1,000 µg/mL	1 mL	Methanol-P&T	S-2305
Methyl acetate	79-20-9	1,000 µg/mL	1 mL	Methanol-P&T	S-3893
3-Methyl-1-butanol	123-51-3	1,000 µg/mL	1 mL	Methanol-P&T	S-2579
2-Methyl-1-butanol	137-32-6	1,000 µg/mL	1 mL	Methanol-P&T	S-4238
4-Methyl-2-pentanone	108-10-1	1,000 µg/mL	1 mL	Methanol-P&T	S-2600
1-Methyl-2-pyrrolidinone	872-50-4	1,000 µg/mL	1 mL	Methanol-P&T	S-2590
Methyl sulfoxide	67-68-5	1,000 µg/mL	1 mL	Methanol-P&T	S-2565
Nitromethane	75-52-5	1,000 µg/mL	1 mL	Methanol-P&T	S-2722
1-Pentanol	71-41-0	1,000 µg/mL	1 mL	Methanol-P&T	S-2980

## Pharmaceutical Residual Solvents Standards (continued)

Compound	CAS #	Concentration	Volume	Matrix	Part #
1-Propanol	71-23-8	1,000 µg/mL	1 mL	Methanol-P&T	S-3160
2-Propanol	67-63-0	1,000 µg/mL	1 mL	Methanol-P&T	S-3167
Propyl acetate	109-60-4	1,000 µg/mL	1 mL	Methanol-P&T	S-3204
Pyridine	110-86-1	1,000 µg/mL	1 mL	Methanol-P&T	S-3240
Tetrahydrofuran	109-99-9	1,000 µg/mL	1 mL	Methanol-P&T	S-3460
Tetramethylene sulfone	126-33-0	1,000 µg/mL	1 mL	Methanol-P&T	S-3877
Benzene	71-43-2	1,000 µg/mL	1 mL	Methanol-P&T	S-405
Carbon tetrachloride	56-23-5	1,000 µg/mL	1 mL	Methanol-P&T	S-750
Chlorobenzene	108-90-7	1,000 µg/mL	1 mL	Methanol-P&T	S-810
Chloroform	67-66-3	1,000 µg/mL	1 mL	Methanol-P&T	S-865
Cyclohexane	110-82-7	1,000 µg/mL	1 mL	Methanol-P&T	S-1015
1,2-Dichloroethane	107-06-2	1,000 µg/mL	1 mL	Methanol-P&T	S-1380
1,1-Dichloroethene	75-35-4	1,000 µg/mL	1 mL	Methanol-P&T	S-1390
cis-1,2-Dichloroethene	156-59-2	1,000 µg/mL	1 mL	Methanol-P&T	S-1394
trans-1,2-Dichloroethene	156-60-5	1,000 µg/mL	1 mL	Methanol-P&T	S-1400
Ethylbenzene	100-41-4	1,000 µg/mL	1 mL	Methanol-P&T	S-1940
n-Heptane	142-82-5	1,000 µg/mL	1 mL	Methanol-P&T	S-2125
n-Hexane	110-54-3	1,000 µg/mL	1 mL	Methanol-P&T	S-2190
Isopropylbenzene	98-82-8	1,000 µg/mL	1 mL	Methanol-P&T	S-2315
Methyl-tert-butyl ether	1634-04-4	1,000 µg/mL	1 mL	Methanol-P&T	S-2455
Methylcyclohexane	108-87-2	1,000 µg/mL	1 mL	Methanol-P&T	S-2470
Methylene chloride	75-09-2	1,000 µg/mL	1 mL	Methanol-P&T	S-2480
n-Pentane	109-66-0	1,000 µg/mL	1 mL	Methanol-P&T	S-2975
1,2,3,4 Tetrahydronaphthalene	119-64-2	1,000 µg/mL	1 mL	Methanol-P&T	S-3464
Toluene	108-88-3	1,000 µg/mL	1 mL	Methanol-P&T	S-3505
1,1,1-Trichloroethane	71-55-6	1,000 µg/mL	1 mL	Methanol-P&T	S-3605
Trichloroethene	79-01-6	1,000 µg/mL	1 mL	Methanol-P&T	S-3615

## Pharmaceutical Residual Solvents Standards (continued)

Compound	CAS #	Concentration	Volume	Matrix	Part #
m-Xylene	108-38-3	1,000 µg/mL	1 mL	Methanol-P&T	S-3830
o-Xylene	95-47-6	1,000 µg/mL	1 mL	Methanol-P&T	S-3835
p-Xylene	106-42-3	1,000 µg/mL	1 mL	Methanol-P&T	S-3840
Methanol	67-56-1	1,000 µg/mL	1 mL	DI Water	S-2380
Kit of all above singles	Multiple	1,000 µg/mL	1 mL	Methanol-P&T	USP-SOL-A

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