



Analytical Standards for Wine

- Analytical standards for wine taint detection
- Manufactured from the highest purity starting materials



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Analytical Standards for Wine

Analytical Standards for Wine Taint Detection

Wine is a complex combination of water, alcohol and other substances such as organic acids, phenols, sugars, carbon dioxide, and sulfur dioxide. The chemical interactions of these compounds, combined with the aging process, determines the quality of the color, taste and aroma of the wine. However, during this process, the chemical interactions can also play key roles in spoiling the wine. For instance, cork taint transpires when naturally occurring airborne fungi react with chlorophenol compounds to form 2,4,6-Trichloroanisole (TCA) in the wine. When this reaction occurs, the wine's aroma is reduced significantly, replaced by an undesirable, smell and taste. The wine industry has identified and measured several compounds that can cause this spoilage.

For this industry, Spex CertiPrep offers Certified Reference Materials for wine that are designed for GC, GC/MS, HPLC, and LC/MS. These standards are manufactured from the highest purity starting materials and the highest grade of solvents available to guarantee superior standards. Every standard is supplied with a comprehensive Certificate of Analysis.



Organic Certified
Reference Materials



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



Supplied with a
Certificate of Analysis



ISO Accredited
Standards

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Compound	CAS #	Concentration	Volume	Matrix	Part #
Acetic acid	64-19-7	1,000 µg/mL	1 mL	Methanol P&T	S-133
Ethanol	64-17-5	1,000 µg/mL	1 mL	Methanol P&T	S-1885
Ethanol	64-17-5	2,000 µg/mL	1 mL	H2O	S-1885-W2K
2-Ethylphenol	90-00-6	1,000 µg/mL	1 mL	Methanol P&T	S-1983
4-Ethylphenol	123-07-9	1,000 µg/mL	1 mL	Methanol P&T	S-1985
2-Fluorophenol	367-12-4	1,000 µg/mL	1 mL	Methanol	S-2050
2,3,4,5,6-Pentachloroanisole	1825-21-4	1,000 µg/mL	1 mL	Methanol	S-2930
Pentachloroanisole	87-86-5	1,000 µg/mL	1 mL	Methanol	S-2950
Phenol-d6	13127-88-3	1,000 µg/mL	1 mL	Methanol P&T	S-3035
2,3,4,6-Tetrachlorophenol	938-22-7	1,000 µg/mL	1 mL	Methanol	S-3405B
2,4,6-Tribromophenol	118-79-6	1,000 µg/mL	1 mL	Methanol P&T	S-3555
2,4,6-Trichloroanisole	87-40-1	1,000 µg/mL	1 mL	Methanol	S-3586
2,4,6-Trichlorophenol	88-06-2	1,000 µg/mL	1 mL	Methanol P&T	S-3645
Malic acid	636-61-3	1,000 µg/mL	1 mL	Methanol P&T	S-4168
4-Ethyl-2-methoxyphenol	2785-89-9	1,000 µg/mL	1 mL	Methanol P&T	S-4183
2,4,6-Tribromoanisole	607-99-8	1,000 µg/mL	1 mL	Methanol	S-4309
2,4,6-Trichloroanisole-d5	352439-08-8	20 ng/mL	1 mL	Methanol P&T	S-4336-20
2,4,6-Trichloroanisole-d5	352439-08-8	46 µg/L	1 mL	Ethanol	S-4336-46
2,4,6-Trichloroanisole-d5	352439-08-8	100 µg/mL	1 mL	Methanol P&T	S-4336-100
2,4,6-Tribromophenol-d5	1219795-33-1	1,000 µg/mL	1 mL	Methanol P&T	S-4335
2,4,6-Tribromophenol-d5	1219795-33-1	100 µg/mL	1 mL	Methanol	S-4335-100
Dextrose anhydrous	50-99-7	1,000 µg/mL	1 mL	Methanol P&T	S-5005
2,3-Butanedione	431-03-8	1,000 µg/mL	1 mL	Methanol P&T	S-609
2-Chlorophenol-3,4,5,6-d4	93951-73-6	1,000 µg/mL	1 mL	Methanol P&T	S-905

Wine Mix 1 in Methanol					
Component	CAS #	Component	CAS #	Component	CAS #
2,4,6-Tribromoanisole-d5	1219795-33-1	2,4,6-Trichloroanisole-d5	352439-08-8	Pentachloroanisole-d3	1219804-52-0
	Concentration		Volume	Part #	
	100 µg/mL for each component		1 mL	WINE-1	

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Wine Mix 2 in Methanol-P&T

Component	CAS #	Component	CAS #	Component	CAS #
2,3,4,5,6-Pentachloroanisole	1825-21-4	2,3,4,6-Tetrachloroanisole	938-22-7	2,4,6-Trichloroanisole	87-40-1
Concentration		Volume		Part #	
100 µg/mL for each component		1 mL		WINE-2	

Wine Mix 3 in Methanol-P&T

Component	CAS #	Component	CAS #	Component	CAS #
Carbon disulfide	75-15-0	2-Ethylthiophene	872-55-9	2-Methylthiophene	554-14-3
Ethyl sulfide	352-93-2	Methanethiol	74-93-1	1-Pentanethiol	110-66-7
Ethanethiol	75-08-1	Methyl disulfide	624-92-0	2-Propanethiol	75-33-2
Ethyl disulfide	110-81-6	Methyl sulfide	75-18-3	Thiophene	110-02-1
Ethyl methyl sulfide	624-89-5	2-Methyl-2-propanethiol	75-66-1		
Concentration		Volume		Part #	
10,000 µg/mL for each component		1 mL		WINE-3	

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