

Methanol
Grade: ACS/USP/NF/HPLC-UV

Catalog number: 33900HPLC

Test	Mono-graph	Specification	Typical Result
Assay (corrected for water)	ACS	99.8% min	99.97 %
Assay	NF	NLT 99.5%	100.00 %
Substances Darkened by Sulfuric Acid	ACS	To Pass Test	Pass
Readily Oxidizable Substances	NF	To Pass Test	Pass
Substances Reducing Permanganate	ACS	To Pass Test	Pass
Readily Carbonizable Substances	NF	To Pass Test	Pass
Solubility in Water	ACS	To Pass Test	Pass
Color (APHA)	ACS	10 max	1
Water	ACS	NMT 0.1%	0.02 %
Water	NF	NMT 0.1%	0.02 %
Residue on Evaporation	ACS	0.001% max	0.000 %
Non -Volatile Residue	NF	NMT 2mg (0.001% w/w)	0 mg
Carbonyl Compounds - Acetone	ACS	0.001% max	None Detected
Acetone and Aldehydes (as Acetone)	NF	NMT 0.003%	LT 0.003%
Carbonyl Compounds - Formaldehyde	ACS	0.001% max	LT 0.001%
Carbonyl Compounds - Acetaldehyde	ACS	0.001% max	LT 0.001%
Titration Acid	ACS	0.0003 meq/g max.	0.0002 meq/g
Acidity	NF	NMT 0.45mL 0.020N NaOH required	0.10 ml
Titration Base	ACS	0.0002 meq/g max.	0.0001 meq/g
Alkalinity (as ammonia)	NF	NMT 0.20mL 0.020N H ₂ SO ₄ required (3 ppm max)	0.05 ml
Identification A (Infrared Absorption)	NF	To Pass Test	Pass

Test	Mono-graph	Specification	Typical Result
Identification B (GC Analysis)	NF	To Pass Test	Pass
UV Absorption @205nm	ACS	1.00 max.	0.95
UV Absorption @210nm	ACS	0.80 max.	0.53
UV Absorption @220nm	ACS	0.40 max.	0.25
UV Absorption @230nm	ACS	0.20 max.	0.11
UV Absorption @240nm	ACS	0.10 max.	0.05
UV Absorption @260nm	ACS	0.04 max.	0.01
UV Absorption @280nm-400nm	ACS	0.01 max.	0.00

Certification and Compliance Statements

This product is tested to meet specifications listed in the United States Pharmacopeia, National Formulary and American Chemical Society monographs.

This product is manufactured for Routine HPLC Analysis and meets the requirements for General Use, ACS Specifications. This product is not intended for GC or critical HPLC analysis. See Distilled Grade for those applications.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

No chemicals whatsoever are used as solvents at any point in the manufacture, processing or packaging of Methanol. Only Class 2 and Class 3 residual solvents may appear as impurities / related substances / low level contaminants in Methanol. Concentration of Class 2 Option 1 and Class 3 residual solvents is below limits in the current USP/NF General Chapter <467>.

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