



Product Specifications Sheet

TEST	MONO-GRAPH	SPECIFICATION	TYPICAL RESULT	UNITS
Se (Selenium)	USP<232>	Lot Analysis	0.00	ppm
Sn (Tin)	USP<232>	Lot Analysis	0.00	ppm
Tl (Thallium)	USP<232>	Lot Analysis	0.00	ppm
V (Vanadium)	USP<232>	Lot Analysis	0.00	ppm
Absorbance @230nm	EP/BP	0.30 max.	0.02	N/A
Absorbance @250nm	EP/BP	0.10 max.	0.00	N/A
Absorbance @270nm	EP/BP	0.03 max.	0.00	N/A
Absorbance @290nm	EP/BP	0.02 max.	0.00	N/A
Absorbance @310nm	EP/BP	0.01 max.	0.00	N/A
Absorbance	EP/BP	The spectrum shows a steadily descending curve with no observable peaks or shoulders	Pass	N/A
Acidity or Alkalinity	EP/BP	To Pass Test	Pass	N/A
Appearance	EP/BP	The solution is clear	Pass	N/A
Benzene and related substances - Benzene (by GC)	EP/BP	NMT 2 ppm	0	ppm
Characters / Solubility	EP/BP	Appearance: clear, colourless liquid. Solubility: miscible with water and with ethanol (96 per cent).	Pass	N/A
Identification A - Relative Density	EP/BP	0.785 - 0.789 g/ml @ 20°C	0.785	g
Identification B - Refractive Index @ 20oC	EP/BP	1.376-1.379	1.377	N/A
Identification C - Infrared Absorption	EP/BP	Compares to standard	Pass	N/A
Identification D	EP/BP	The entire sulfuric acid layer turns violet	Pass	N/A
Nonvolatile Substances	EP/BP	NMT 20ppm	0	ppm



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Peroxides Test	EP/BP	No color develops	Pass	N/A
Benzene and related substances - Total of Impurities	EP/BP	NMT 0.3%	0.0	%
Water, wt%	EP/BP	NMT 0.5%	0.03	%
Appearance	JP	Clear, colorless liquid	Pass	N/A
Distilling Range 81-83oC	JP	More than 94% (vol)	Pass	N/A
Identification Test 1	JP	Light yellow precipitate is formed	Pass	N/A
Identification Test 2	JP	Filter paper turns red-brown color	Pass	N/A
Purity 1- Clarity of Solution	JP	Solution is Clear	Pass	N/A
Purity 2 - Acidity	JP	To pass Test	Pass	N/A
Purity 3 - Residue on Evaporation	JP	NMT 1.0mg/20mL	0.0	mg
Specific Gravity	JP	0.785-0.788 @ 20°C	0.787	N/A
Solubility	JP	Miscible with water, ethanol, methanol, diethyl ether	Pass	N/A
Water, wt/v%	JP	NMT 0.75%	0.03	%
Limit of Volatile Impurities - 2-Butanol	USP	NMT 0.1%	LT 0.1%	N/A
Limit of Volatile Impurities - Acetone	USP	NMT 0.1%	LT 0.1%	N/A
Acidity	USP	NMT 0.70 ml of 0.020N NaOH is required	0.2	ml
Assay (corrected for water)	USP	99.0% min	99.93	%
Limit of Volatile Impurities - Diethyl Ether	USP	NMT 0.1%	LT 0.1%	N/A
Limit of Volatile Impurities - Diisopropyl Ether	USP	NMT 0.1%	LT 0.1%	N/A
Identification B	USP	To Pass Test	Pass	N/A



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Identification A - Infrared Spectroscopy	USP	To Pass Test	Pass	N/A
Identification C – Limit of Methanol	USP	NMT 0.02%	Pass	N/A
Limit of Volatile Impurities – Methanol	USP	NMT 0.02%	LT 0.02%	N/A
Limit of Volatile Impurities - n-Propyl Alcohol	USP	NMT 0.1%	LT 0.1%	N/A
Limit of Nonvolatile Residue	USP	NMT 2.5 mg (0.005%)	0.0	mg
Refractive Index @ 20oC	USP	1.376-1.378	1.377	N/A
Specific Gravity	USP	0.783 - 0.787 @25°C	0.783	N/A
Limit of Volatile Impurities – Individual unspecified impurity	USP	NMT 0.1%	LT 0.1%	N/A
Limit of Volatile Impurities - Total	USP	NMT 1.0%	LT 0.1%	N/A
Water Determination	USP	NMT 0.5%	0.03	%

This product is for further commercial manufacturing, laboratory or research use, and may be used as a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.