



Product Specifications Sheet

Harmonized USP/BP/EP Alcohol 95.5% (191 PROOF) ETHANOL

This product meets or exceeds the 2004 USP Specifications
 This product conforms to all BP (99) specifications (exception of assay & density)
 This product meets or exceeds the 2000 Harmonized BP/EP Specifications.

CATALOG NUMBER: 111USP/BP/EP191-Size Code*

Available in the following sizes:

*Refer to the Master Price List – Individual package sizes have unique size codes

TEST	MONO GRAPH	SPECIFICATION	RESULT
Apparent Specific Gravity (USP)	Meets USP & conforms to EP	0.8118 - 0.8153 @ 15.56°C	0.8125
Relative Density (EP)	Meets EP & conforms to USP	0.8055 – 0.8119 @ 20°C	0.8094
Assay (Ethanol) V/V (20C)	USP/EP	95.1 to 96.0% by Volume	95.8%
Proof (20C)	USP/EP	190.2 to 192	191.6
Identification Test A	USP/BP	Test Positive for Ethanol	Positive
Identification Test B	USP/BP	Test Positive for Ethanol	Positive
Identification Test A	EP	To Conform	Conforms
Identification Test B	EP	Conforms to IR Spectra	Conforms
Identification Test C	EP	Test Positive for Ethanol	Positive
Identification Test D	EP	Test Positive for Ethanol	Positive
Appearance	USP	Clear, colorless	Pass
Clarity of Solution	BP	Clear according to test (5 ml in 100 ml water)	Pass
Appearance	EP	Clear according to test (1.0 ml to 20 ml water)	Pass
Aldehydes	BP	10 ppm max	Pass
Acetaldehyde/Acetal	EP	NMT 10ppm	Pass
Aldehydes / Foreign Organic Substances	USP	Aldehydes/foreign organic substances not detected (solution remains pink)	Pass
Acidity	USP	Less than 0.90ml of 0.02N NaOH required	Pass
Acidity or Alkalinity	BP/EP	NMT 0.2ml 0.1M NaOH required	Pass
Nonvolatile Residue (matter)	USP	Less than 1mg per 40ml of sample	<10 ppm
Nonvolatile Residue (matter)	BP	Less than 5 mg of residue (50 ppm)	<10 ppm
Nonvolatile Residue (matter)	EP	Less than 2.5 mg of residue (25 ppm)	<10 ppm
Water Insoluble Substances	USP	Remains clear for 30 min.	Pass
Clarity of Solution	BP/EP	Solution remains clear	Pass
Reducing Substances	BP	To Pass Test	Pass

Disclaimer: For Industrial, Pharmaceutical, Flavor & Fragrance or Lab Use. Not intended for use as an active substance in Food or Drug. Not to be considered a Medical Device. Not intended for use as a Disinfectant as defined by the EPA. The appropriate use of this product is the sole responsibility of the user. *Excluding UV/Vis for pure Ethyl Alcohol (See shelf life statement). (Rev. # disclaimer only: Rev 3.5 11/06 EF)



Amyl Alcohol/Nonvolatile Carbonizable Substances	USP	Amyl alcohol / non-volatile carbonizable substances not detected (no brown/red color)	Pass
Acetone / IPA	USP	Acetone/IPA not detected	Pass
Methanol	USP	Methanol not detected (no violet color produced) equates to < 50 ppm	<5 ppm
UV Absorbance	EP	@ 240nm NMT 0.4au @ 250nm – 260nm NMT 0.3au @ 270nm – 340nm NMT 0.1au	0.176 0.010 – 0.001 0.000 – 0.000
Methanol	EP	NMT 100ppm	<5 ppm
Benzene	BP/EP	Benzene not more than 2 ppm	ND
Volatile Impurities	BP	No single peak greater than 200 ppm, sum of all secondary peaks less than 400 ppm	Pass
Volatile Impurities	EP	Methanol < 100 ppm Sum of Acetal and Acetaldehyde <10 ppm Benzene < 2 pm Sum of all secondary peaks NMT 300ppm	<5 ppm <5 ppm ND Pass

Form: Ethanol, Pure, 191, USP/BP/EP Rev. 2.6, 6/08, SAK

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