

PRODUCT SPECIFICATION SHEET

<p>Harmonized USP/EP/BP Alcohol Absolute, Dehydrated, Anhydrous (200 PROOF) Pure SYNTHETIC ETHANOL</p>

Meets USP/EP/BP Monographs
CATALOG NUMBER: 1110000EP20S-Size Code*
 Available in the following sizes:

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

TEST	MONO GRAPH	SPECIFICATION	TYPICAL RESULT
Assay (by specific gravity@15.56°C) Assay (by relative density @20°C)	USP EP/BP	NLT 99.5%	99.99%
Proof	27CFR 30.23	Lot Analysis	200.0
Characters	EP / BP	Ethanol is a clear, colorless volatile, flammable liquid. It is miscible with water and methylene chloride. It burns with a blue, smokeless flame. BP: about 78°C	Pass
Identification Test A Identification A - Relative Density	USP EP/BP	It meets the requirements of the test for Specific Gravity 0.790 – 0.793 @ 20°C	Pass 0.7905
Identification Test B	USP/EP/BP	Conforms to IR Spectra	Pass
Identification Test C	EP/BP	An intense blue color appears on the paper and becomes paler after 10-15 minutes	Pass
Identification Test D	EP/BP	A yellow precipitate is formed within 30minutes	Pass
Specific Gravity	USP	NMT 0.7962 at 15.56C	0.7938
Color of Solution	USP	The Sample solution has the appearance of water or is not more intensely colored than the Standard solution	Pass
Clarity of Solution	USP	Sample Solutions show the same clarity as that of water, or their opalescence is not more pronounced than that of Standard suspension A.	Pass
Appearance	EP/BP	Clear and Colorless. Dilution remains clear when compared with water	Pass
Acidity or Alkalinity	USP/EP/BP	The solution is pink (30ppm, as acetic acid)	Pass
Limit of Nonvolatile Residue Residue on Evaporation	USP EP/BP	The weight of the residue does not exceed 2.5 mg 25 ppm, max	0.5 mg <10ppm
UV Absorbance	USP/EP/BP	Examine between 235nm – 340nm 240nm 0.40 max. 250nm-260nm 0.30 max. 270nm-340nm 0.10 max. The spectrum shows a steadily descending curve with no observable peaks or shoulders	0.29 0.11 0.02 Pass
Organic Impurities Volatile Impurities	USP EP/BP	Methanol 200 ppm Acetaldehyde and Acetal 10ppm max Benzene 2ppm max. Sum of all other impurities 300ppm max.	<5 ppm None Detected None Detected <10 ppm

Form: Ethanol, Pure, 200, Synthetic, USP/EP/BP Rev. 5.1, 06/16, KAD

This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or 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.