

PRODUCT SPECIFICATIONS SHEET
ETHYL ACETATE
MEETS REAGENT ACS/USP/NF/EP/BP GRADE MONOGRAPHS

Main Catalog #: zp3300000EP-Size Code*, zp3300000BP-Size Code*

Available in the following sizes:

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

Product Specifications	Monograph	Limit	Result
Assay by GC, min	ACS	99.5%	99.99%
Assay	NF	98.0-102.0%	Pass
Identification A	NF	Infrared Absorption <197F>	Pass
Identification A	EP/BP	Boiling point : 76°C – 78°C	Pass
Identification B	EP/BP	IR comparable with Ph. Eur. Reference spectrum	Pass
Identification C	EP/BP	It gives the reaction of acetyl	Pass
Identification D	EP/BP	It gives the reaction of esters	Pass
Specific Gravity @ 25°C	NF	0.894-0.898	0.8969
Relative density @ 20°C	EP/BP	0.898 – 0.902	0.9005
Acidity	NF	NMT 0.10 mL of 0.10 N NaOH is required.	Pass
	EP/BP	The solution remains pink for not less than 15sec.	Pass
Readily Carbonizable Substances	NF	No dark zone is developed within 15 minutes	Pass
Reaction with sulphuric acid	EP/BP	Interface of the 2 liquids is not colored	Pass
Chromatographic Purity	NF	Acetaldehyde NMT 0.1% Ethyl isobutyl ether NMT 0.1% Methyl compounds NMT 0.1% Other impurities NMT 0.3%	<0.1% <0.1% <0.1% <0.3%
Color (APHA), max	ACS	10	<10
Appearance of Solution	EP/BP	A mixture of 1mL of the substance to be examined and 15mL of water R is clear and colorless	Pass
Refractive Index @ 20°C	EP/BP	1.370 – 1.373	1.3727
Residue After Evaporation	ACS	0.003% max.	<0.001%
Residue on evaporation	EP/BP	30 ppm max.	<10 ppm
Limit of Nonvolatile Residue	NF	NMT 0.02%	<0.001%
Water	ACS	0.2% max.	
	EP/BP	0.1% max.	0.03%
Titration Acid, max	ACS	0.0009 meq/g	<0.0001meq/g
Substances Darkened By Sulfuric Acid	ACS	No dark coloration should be produced at the zone of impact	Pass
Related substances	EP/BP	The sum of the areas of any peaks apart from the principal peak is not greater than 0.2% of the area of the principal peak.	Pass

Form Ethyl Acetate-Reagent ACS-USP/NF-EP-BP, # 101, Rev. 2.6, 02/18, PJM

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.