

PRODUCT SPECIFICATION SHEET
ETHYL ACETATE
MEETS NF/FCC/EP GRADE MONOGRAPHS
 Main Catalog #: 330NF/FCC/EP

Test	Mono graph	Specification	Typical Result
Assay	NF	98.0 – 102.0%	99.99%
Assay as C ₄ H ₈ O ₂	FCC	NLT 99.0% of C ₄ H ₈ O ₂	99.99%
Identification A	NF	Infrared Absorption <197F>	Pass
Identification	FCC	IR: Compares favorably to reference spectrum	Conforms
Identification A	EP	Boiling Point: 76°C to 78°C	Pass
Identification B	EP	IR: Compares favorably to reference spectrum	Pass
Identification C	EP	It gives the reaction of acetyl	Pass
Identification D	EP	It gives the reaction of esters	Pass
Description	FCC	Colorless Liquid; Volatile at Low Temperature; Flammable	Pass
Appearance of Solution	EP	The Solution is Clear and Colorless	Pass
Specific Gravity	NF	0.894 – 0.898	0.8969
Specific Gravity @ 25°C	FCC	0.894 - 0.898	0.8969
Relative Density @ 20°C	EP	0.898 – 0.902	0.900
Refractive Index @ 20°C	FCC	1.370 – 1.375	1.372
Refractive Index	EP	1.370 – 1.373	1.372
Acidity	NF	NMT 0.10 mL of 0.10 N sodium hydroxide is required	Pass
Acidity	EP	The solution remains pink for not less than 15 seconds	Pass
Acid Value	FCC	NMT 5.0	Pass
Odor	FCC	Acetous, Ethereal	Pass
Solubility	FCC	Miscible with alcohol, ether, glycerin, most oils; 1mL dissolves in 10 mL water	Pass
Boiling Point	FCC	~77°C	Pass
Readily Carbonizable Substances	NF	No dark zone is developed within 15 minutes	Pass
Readily Carbonizable Substances	FCC	Passes Test	Pass
Reaction with Sulfuric Acid	EP	After 15 minutes, the interface between the 2 liquids is not colored	Pass
Methyl Compounds	FCC	Passes Test	Pass
Limit of nonvolatile residue	NF	NMT 0.02%	<0.001%
Residue on Evaporation	FCC	NMT 0.02%	<0.001%
Residue on Evaporation	EP	Maximum 30ppm	<10ppm
Chromatographic Purity	NF	Acetaldehyde NMT 0.1%	<0.1%
		Ethyl isobutyl ether NMT 0.1%	<0.1%
		Methyl Compounds NMT 0.1%	<0.1%
		Other impurities NMT 0.3%	<0.3%
Related Substances: GC	EP	Not more than 0.2% of the area of the principal peak	Pass
Distillation Range	FCC	Between 76°C - 77.5°C	77.0°C
Water	EP	Maximum 0.1%	0.01%

Form Ethyl Acetate-NF/FCC/EP, Rev. 1.3, 10/19, 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.