

**Product Specifications Sheet**  
**ETHYL ALCOHOL, 190 PROOF (SYNTHETIC)**  
 USP/NF Grade

Expiration Date: Three Years from Date of Manufacture\*  
 Main Catalog #: 11100019S

This product meets or exceeds all specifications as set forth in the current USP/NF monographs.

TEST	SPECIFICATION	TYPICAL RESULT
Identification Test A	It complies with test for Specific Gravity	Pass
Identification Test B	Conforms to Infrared Spectra	Pass
Apparent Specific Gravity @ 15.56°C	0.812 - 0.816 @ 15.56°C	0.8158
Assay	94.9 - 96.0 % by volume	95.00 %
Final True Proof by Hydrometer 27CFR 30.23	Lot Analysis	190.0
Acidity or Alkalinity	The solution is pink (30ppm, expressed as acetic acid)	Pass
Clarity of Solution	Test Solution A & B show the same clarity as that of water, or their opalescence is not more pronounced than that of Reference Suspension A	Pass
Color of Solution	The Test solution has the appearance of water or is not more intensely colored than the standard solution	Pass
Ultraviolet absorption	240nm	0.40 max. 0.24
	250nm	0.30 max. 0.09
	260nm	0.30 max. 0.03
	270nm	0.10 max. 0.02
	340nm	0.10 max. 0.00
	Absorption curve between 235nm – 340nm is smooth	Pass
Limit of nonvolatile residue	The weight of the residue does not exceed 2.5mg	<1.0mg
Volatile Impurities	Methanol	100 ppm <10 ppm
	Sum of Acetal and Acetaldehyde	10ppm max <1 ppm
	Benzene	2ppm max. <1 ppm
	Sum of all secondary peaks	300ppm max. <20 ppm

*Form: Ethanol, Pure, 190, USP, #101, Rev. 4.3, 01/08, SJK*

Approved by: P. McGowan, Laboratory Manager

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. (Rev. # disclaimer only, rev 3.3 10/05/05 PD)

