

I T E C
Refining and Marketing Company Ltd.



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B-GRADE ANHYDROUS ETHYL ALCOHOL SPECIFICATIONS (99.3%)
(U.S. Specification)

<u>PARAMETER</u>	<u>Specification Limits</u>		<u>Method</u>
	<u>min.</u>	<u>max.</u>	
Alcohol strength	99.30%		Alcoholmeter for GL
Acidity (as Acetic Acid)	GL at 20°C		
Acetal		30 ppm	ASTM D1613
Aldehydes (Acetaldehyde)		100 mg/L	GC
Esters (Ethyl Acetate)		100 mg/L	GLC/ASTM D5501
Methanol		120 mg/L	GLC/ASTM D5501
	(N-Propanol, I-Butanol, I-Amyl alcohol, I-Propanol, N-Butanol)	80 mg/L	GLC/ASTM D5501
Total higher alcohols		400 mg/L	GLC/ASTM D5501
Iso - Propanol		20 mg/L	GLC/ASTM D5501
Cyclohexane		Absent	GLC/ASTM D5501
Crotonaldehyde		Absent	GLC/ASTM D5501
Toluene / Xylene / Other aromatics		Absent	GC
Hydrocarbons		Absent	ASTM D 1722
Benzene		Absent	U.V./GC
Dry Extract		40 mg/L	ASTM D 1353
1.4 Dioxane		Absent	GC/MS
M.E.G.	Mono Ethylene Glycol	Absent	ASTM D1296
Alkalinity		Negative	ASTM D 1613
Chlorides		1.0 ppm	GC
Sulfur		1 ppm	ASTM D5453-06
Aspect		Clear, colorless and exempt of material in suspension	
Remarks		Free from components foreign to the raw material	
Odor		Characteristic	Organoleptic