

### ETHANOL 96% ENA SPECIFICATION FOR MEDICAL, ALCOHOLIC BEVARGES, COSMETIC INDUSTRY

Specification	Testing Method	UNIT	Specs	Results
Strength @ 20°C	Alcometer	GL @ 20°C	Min 96.0 %	96.61
Dry matter	ISO-759	Gr/hl	< 1.0	0.4
Acidity (as acetic acid)	ASTM D1613	Gr/hl	< 1.5	0.98
Esters (as ethyl acetate)	ASTM D5501	Gr/hl	< 0.8	< 0.5
Aldehydes (as acetaldehydes),	ASTM D5501	Gr/hl	< 0.5	< 0.5
Methanol,	ASTM D5501	Gr/hl	< 0.8	< 0.5
Total Higher alcohols, (Excluding IPA)	ASTM D5501	Gr/hl	< 1.5	< 0.5
Furfural	ASTM D5501		absent	absent
PTT @ 20°C	ASTM D1363	Minutes	Min 25 Minutes	27
Hydrocarbons	ASTM D5501		Absent	absent
Crotonaldehydes	ASTM D5501		Absent	absent
UV Absorbance(Reference water Cell,1 Cm)	UV Spectrophotometer		270 nm Extinction:	- 000 max 0.02
			240 nm Extinction:	0.0375 < 0.1
			230 nm Extinction:	0.0879 < 0.15
			220 nm Extinction:	0.1772 < 0.3
			Curve UV Spectrophotometer:	Smooth and Regular
Odor	Manual		Neutral	Neutral
Aspect	Visual		Liquid free from Suspended matter	Clear liquid Free from Suspended matter

**Ethanol is agriculture origin and not dangerous for human consumption under the limit.  
 100% of the Ethanol are originated from grain. Not produced through dehydration process.**

**Ethanol corresponds with the REGULATION (EC) No 110/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 January 2008 on the definition, description, presentation, labeling and the protection of geographical indications of spirit drinks and repealing Council Regulation (EEC) No 1576/89.**

**AYTAŞ TARIM ÜRÜNLERİ  
 SANAYİ VE TİCARET A.Ş.  
 AEGEAN FREE ZONE BRANCH  
 Tel: 90-232-2511692 İZMİR TURKEY**