

## Ethanol, HPLC

C<sub>2</sub>H<sub>5</sub>OH                      FW. 46.07  
 CAS-No.                        64-17-5  
 Code                              LC1380

Density 1 L = 0.790 Kg.  
 Melting Point - 114.5 °C  
 Boiling Point 78.3 °C

### Specifications

(Conforms to ACS/BP/EP/USP/NF )

Assay (by GC.)	99.7% min.
Appearance	Clear and colorless liquid
Identity (IR)	Passes test
Color (APHA)	10 max.
Color of solution	Passes test
Clarity of solution	Passes test
Water (by Coulometry)	0.1% max.
Acid or alkalinity	30 ppm max.
Acidity (mEq./g.)	0.0002 max.
Alkalinity (mEq./g.)	0.0002 max.
Residue on Evaporation	0.0005% max.
Aldehydes (as Acetaldehyde)	0.001% max.
Carbonyl compounds (as CO)	0.003% max.
Acetone (GC.)	0.001% max.
Ethylmethylketone (GC.)	0.02% max.
Higher alcohols (GC.)	0.01% max.
Isoamyl alcohol (GC.)	0.05% max.
Methanol (GC.)	0.01% max.
Propan-2-ol (GC.)	0.003% max.
Acetaldehyde and Acetal	10 ppm max.
Benzene	2 ppm max.
Total of other impurities	300 ppm max.
Disregard limit	9 ppm max.
Fusel oil	Passes test
Readily carbonizable substances	Passes test
Solubility in water	Passes test
Substances reducing permanganate	0.0002% max.
Chloride (Cl)	0.3 ppm max.
Nitrate (NO <sub>3</sub> )	0.3 ppm max.
Phosphate (PO <sub>4</sub> )	0.3 ppm max.
Sulfate (SO <sub>4</sub> )	0.3 ppm max.
Aluminium (Al)	0.5 ppm max.
Antimony (Sb)	0.02 ppm max.
Arsenic (As)	0.02 ppm max.
Barium (Ba)	0.1 ppm max.
Beryllium (Be)	0.02 ppm max.
Bismuth (Bi)	0.02 ppm max.
Cadmium (Cd)	0.05 ppm max.

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Calcium (Ca)	0.5	ppm max.
Chromium (Cr)	0.02	ppm max.
Copper (Cu)	0.02	ppm max.
Gallium (Ga)	0.02	ppm max.
Gold (Au)	0.02	ppm max.
Indium (In)	0.02	ppm max.
Iron (Fe)	0.1	ppm max.
Platinum (Pt)	0.02	ppm max.
Lead (Pb)	0.1	ppm max.
Lithium (Li)	0.02	ppm max.
Magnesium (Mg)	0.1	ppm max.
Manganese (Mn)	0.02	ppm max.
Molybdenum (Mo)	0.02	ppm max.
Nickel (Ni)	0.02	ppm max.
Silver (Ag)	0.02	ppm max.
Tin (Sn)	0.1	ppm max.
Titanium (Ti)	0.02	ppm max.
Thallium (Tl)	0.02	ppm max.
Vanadium (V)	0.02	ppm max.
Zinc (Zn)	0.1	ppm max.
Zirconium (Zr)	0.02	ppm max.
UV Absorbance		
270 - 340 nm	0.10	AU max.
250 - 260 nm	0.30	AU max.
240 nm	0.40	AU max.

Denatured with Tert Butyl Alcohol less than 0.15% (v/v).