

**Scharlab S.L.**

Gato Pérez, 33. Pol. Ind. Mas d'en Cisa

08181 Sentmenat

☎ +34937456400

✉ helpdesk@scharlab.com

CERTIFICATE OF ANALYSIS

Product Ethanol absolute, reagent grade, ACS, ISO

Batch 18632410

ET0005

Quality release date 17/01/2018

Expiry date 01/2023

Analysis	Batch value	Specifications
Assay (G.C.) (v/v)	99,99 %	≥ 99,9
Identity (IR-Spectrum)	passes test	passes test
Density (20°/4°)	0,7896 g/mL	0,789 - 0,790
Appearance	clear and colourless	clear
Colour (Hazen)	5	≤ 10
Acidity	0,00013 meq/g	≤ 0,0002
Solubility in water	passes test	passes test
Acidity or alkalinity	< 0,0003 %	≤ 0,0003
Chlorides (Cl)	< 0,00003 %	≤ 0,00003
Nitrates (NO ₃)	< 0,00003 %	≤ 0,00003
Phosphates (as PO ₄)	< 0,00003 %	≤ 0,00003
Sulfates (SO ₄)	< 0,00003 %	≤ 0,00003
Aluminium (Al)	< 0,00005 %	≤ 0,00005
Antimony (Sb)	< 0,000002 %	≤ 0,000002
Arsenic (As)	< 0,000002 %	≤ 0,000002
Barium (Ba)	< 0,00001 %	≤ 0,00001
Beryllium (Be)	< 0,000002 %	≤ 0,000002
Bismuth (Bi)	< 0,000002 %	≤ 0,000002
Boron (B)	< 0,000002 %	≤ 0,000002
Cadmium (Cd)	< 0,000005 %	≤ 0,000005
Calcium (Ca)	< 0,00005 %	≤ 0,00005
Chromium (Cr)	< 0,000002 %	≤ 0,000002
Cobalt (Co)	< 0,000002 %	≤ 0,000002
Copper (Cu)	< 0,000002 %	≤ 0,000002
Gallium (Ga)	< 0,000002 %	≤ 0,000002
Gold (Au)	< 0,000002 %	≤ 0,000002
Indium (In)	< 0,000002 %	≤ 0,000002
Iron (Fe)	< 0,00001 %	≤ 0,00001
Lead (Pb)	< 0,00001 %	≤ 0,00001
Lithium (Li)	< 0,000002 %	≤ 0,000002
Magnesium (Mg)	< 0,00001 %	≤ 0,00001
Manganese (Mn)	< 0,000002 %	≤ 0,000002
Molybdenum (Mo)	< 0,000005 %	≤ 0,000005
Nickel (Ni)	< 0,000002 %	≤ 0,000002
Platinum (Pt)	< 0,000002 %	≤ 0,000002
Silver (Ag)	< 0,000002 %	≤ 0,000002
Thallium (Tl)	< 0,000002 %	≤ 0,000002
Tin (Sn)	< 0,00001 %	≤ 0,00001
Titanium (Ti)	< 0,000002 %	≤ 0,000002
Vanadium (V)	< 0,000002 %	≤ 0,000002
Zinc (Zn)	< 0,00001 %	≤ 0,00001

This certificate does not exempt the user from checking the results upon receipt of the goods.
Any copy of our CoA may be obtained from our website at www.scharlab.com

M. Canet
Laboratory Manager

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ET0005		Quality release date	17/01/2018
		Expiry date	01/2023
Analysis	Batch value	Specifications	
Zirconium (Zr)	< 0,000002 %	≤ 0,000002	
Formaldehyde	< 0,0005 %	≤ 0,0005	
Furfural	passes test	passes test	
Fusel oil	passes test	passes test	
Acetaldehyde and acetal (G.C.)	< 0,001 %	≤ 0,001	
Acetone (G.C.)	0,0009 %	≤ 0,001	
Isoamyl alcohol (G.C.)	0,0005 %	≤ 0,05	
Benzene (G.C.)	< 0,0001 %	≤ 0,0002	
Methanol (G.C.)	0,0003 %	≤ 0,01	
Methylethylketone (G.C.)	< 0,0005 %	≤ 0,02	
2-Propanol (G.C.)	< 0,001 %	≤ 0,003	
Higher alcohols (G.C.)	< 0,01 %	≤ 0,01	
Aldehydes (as CH ₃ CHO)	< 0,001 %	≤ 0,001	
Carbonyl compounds (as CO)	< 0,003 %	≤ 0,003	
Substances darkened by H ₂ SO ₄	passes test	passes test	
UV Spectroscopy	passes test	passes test	
Substances reducing KMnO ₄	passes test	passes test	
Residue on evaporation	0,0002 %	≤ 0,0005	
Water (v/v) (K.F.)	0,039 %	≤ 0,1	