

**Scharlab S.L.**

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

08181 Sentmenat

☎ +34937456400

✉ helpdesk@scharlab.com

CERTIFICATE OF ANALYSIS

Product Ethanol 96% v/v, reagent grade, ACS, Reag. Ph Eur

Batch 18237203

ET0004

Quality release date 21/07/2017

Expiry date 07/2022

Analysis	Batch value	Specifications
Assay (G.C.) (v/v)	95,93 %	95,1 - 96,9
Identity (IR-Spectrum)	passes test	passes test
Density (20°/4°)	0,8045 g/mL	0,804 - 0,807
Appearance	clear and colourless	clear
Colour (Hazen)	2	≤ 10
Solubility in water	passes test	passes test
Acidity	0,00013 meq/g	≤ 0,0002
Alkalinity	0,00003 meq/g	≤ 0,0002
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)	< 0,000002 %	≤ 0,000002
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
Vanadium (V)	< 0,000002 %	≤ 0,000002

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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Zinc (Zn)	< 0,00001 %	≤ 0,00001
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.)	0,0010 %	≤ 0,001
Benzene (G.C.)	< 0,0002 %	≤ 0,0002
Isoamyl alcohol (G.C.)	0,0006 %	≤ 0,05
Methanol (G.C.)	0,0005 %	≤ 0,01
Methylethylketone (G.C.)	0,0002 %	≤ 0,02
2-Propanol (G.C.)	0,003 %	≤ 0,003
Aldehydes (as CH ₃ CHO)	< 0,001 %	≤ 0,001
Carbonyl compounds (as CO)	< 0,003 %	≤ 0,003
Higher alcohols (G.C.)	< 0,01 %	≤ 0,01
Substances darkened by H ₂ SO ₄	passes test	passes test
Substances reducing KMnO ₄	passes test	passes test
Residue on evaporation	0,0003 %	≤ 0,0005
Water (v/v) (K.F.)	4,07 %	3,1 - 4,9