Scharlab S.L.
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CERTIFICATE OF ANALYSIS

Product: **2-Propanol**, reagent grade, ACS, ISO, Reag. Ph Eur
AL0312

Batch 17083306
Quality release date 07/04/2016
Expiry date 4/2021

Analysis	Batch value	Specifications
assay (G.C.)	99,99 %	min. 99,8 %
identity (IR-spectrum)	passes test	passes test
appearance	clear	clear
density (20º/4º)	0,7851	0,784 - 0,786
density (20º/20º)	0,7865	0,785 - 0,789
boiling point	81- 83 ºC	81- 83 ºC
colour (Hazen)	4	max. 10
solubility in water	passes test	passes test
acidity	0,000064 meq/g	max. 0,0001 meq/g
alkalinity	< 0,0001 meq/g	max. 0,0001 meq/g
chlorides (Cl)	< 0,00003 %	max. 0,00003 %
nitrates (NO_3)	< 0,00003 %	max. 0,00003 %
phosphates (as PO_4)	< 0,00005 %	max. 0,00005 %
sulfates (SO_4)	< 0,0001 %	max. 0,0001 %
aluminium (Al)	< 0,00005 %	max. 0,00005 %
antimony (Sb)	< 0,000002 %	max. 0,000002 %
arsenic (As)	< 0,000002 %	max. 0,000002 %
barium (Ba)	< 0,00001 %	max. 0,00001 %
beryllium (Be)	< 0,000002 %	max. 0,000002 %
bismuth (Bi)	< 0,00001 %	max. 0,00001 %
boron (B)	< 0,000002 %	max. 0,000002 %
cadmium (Cd)	< 0,000005 %	max. 0,000005 %
calcium (Ca)	< 0,00005 %	max. 0,00005 %
chromium (Cr)	< 0,000002 %	max. 0,000002 %
cobalt (Co)	< 0,000002 %	max. 0,000002 %
copper (Cu)	< 0,000002 %	max. 0,000002 %
gallium (Ga)	< 0,000002 %	max. 0,000002 %
gold (Au)	< 0,000002 %	max. 0,000002 %
indium (In)	< 0,000002 %	max. 0,000002 %
iron (Fe)	< 0,00001 %	max. 0,00001 %
lead (Pb)	< 0,00001 %	max. 0,00001 %
lithium (Li)	< 0,000005 %	max. 0,000005 %
magnesium (Mg)	< 0,00001 %	max. 0,00001 %
manganese (Mn)	< 0,000002 %	max. 0,000002 %
molybdenum (Mo)	< 0,000002 %	max. 0,000002 %

This certificate does not release the user from their control upon receipt of the goods
You can get a copy of any of our COA from our web site: www.scharlab.com

M. Canet
Laboratory Manager

Scharlab S.L. - Certificate of Analysis

Product name: **2-Propanol**, reagent grade, ACS, ISO, Reag. Ph Eur

Batch: 17083306 **Product code:** AL0312

Analysis	Batch value	Specifications
nickel (Ni)	< 0,000002 %	max. 0,000002 %
platinum (Pt)	< 0,000002 %	max. 0,000002 %
silver (Ag)	< 0,000002 %	max. 0,000002 %
tin (Sn)	< 0,00001 %	max. 0,00001 %
thallium (Tl)	< 0,000002 %	max. 0,000002 %
titanium (Ti)	< 0,000002 %	max. 0,000002 %
vanadium (V)	< 0,000002 %	max. 0,000002 %
zinc (Zn)	< 0,00001 %	max. 0,00001 %
zirconium (Zr)	< 0,000002 %	max. 0,000002 %
acetone (G.C.)	< 0,002 %	max. 0,002 %
ethanol (G.C.)	0,0033 %	max. 0,01 %
isopropylether (G.C.)	0,0008 %	max. 0,01 %
methanol (G.C.)	< 0,01 %	max. 0,01 %
n-propanol (G.C.)	0,0070 %	max. 0,1 %
propionaldehyde	< 0,002 %	max. 0,002 %
substances reducing $KMnO_4$	passes test	passes test
substances darkened by H_2SO_4	passes test	passes test
residue on evaporation	0,00015 %	max. 0,001 %
water (K.F.)	0,0120 %	max. 0,05 %

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M. Canet
Laboratory Manager