

**Scharlab S.L.**

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CERTIFICATE OF ANALYSIS

Product: **Methanol**, Multisolvant[®] HPLC grade ACS ISO
ME0315 UV-VIS K.F.

Batch 17129307
Quality release date 20/04/2016
Expiry date 4/2021

Analysis	Batch value	Specifications
assay (G.C.)	99,99 %	min. 99,9 %
identity (IR-spectrum)	passes test	passes test
density (20°/4°)	0,7913	0,790 - 0,792
appearance	clear	clear
colour (Hazen)	1	max. 10
solubility in water	passes test	passes test
acidity	0,0001 meq/g	max. 0,0002 meq/g
alkalinity	0,00001 meq/g	max. 0,0002 meq/g
chlorides (Cl)	< 0,00005 %	max. 0,00005 %
sulfates (SO ₄)	< 0,0001 %	max. 0,0001 %
aluminium (Al)	< 0,00001 %	max. 0,00001 %
arsenic (As)	< 0,000002 %	max. 0,000002 %
barium (Ba)	< 0,000001 %	max. 0,000001 %
beryllium (Be)	< 0,000002 %	max. 0,000002 %
bismuth (Bi)	< 0,000002 %	max. 0,000002 %
boron (B)	< 0,000002 %	max. 0,000002 %
cadmium (Cd)	< 0,000001 %	max. 0,000001 %
calcium (Ca)	< 0,00003 %	max. 0,00003 %
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)	< 0,000002 %	max. 0,000002 %
lead (Pb)	< 0,00001 %	max. 0,00001 %
lithium (Li)	< 0,000005 %	max. 0,000005 %
magnesium (Mg)	< 0,00001 %	max. 0,00001 %
manganese (Mn)	< 0,000001 %	max. 0,000001 %
molybdenum (Mo)	< 0,000002 %	max. 0,000002 %
nickel (Ni)	< 0,000002 %	max. 0,000002 %
platinum (Pt)	< 0,000005 %	max. 0,000005 %
silver (Ag)	< 0,000002 %	max. 0,000002 %
thallium (Tl)	< 0,000002 %	max. 0,000002 %
tin (Sn)	< 0,00001 %	max. 0,00001 %

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: Methanol, Multisolvent® HPLC grade ACS ISO UV-VIS K.F.

Batch: 17129307

Product code: ME0315

Analysis	Batch value	Specifications
titanium (Ti)	< 0,000002 %	max. 0,000002 %
vanadium (V)	< 0,000002 %	max. 0,000002 %
zinc (Zn)	< 0,000001 %	max. 0,000001 %
zirconium (Zr)	< 0,000002 %	max. 0,000002 %
acetone (G.C.)	< 0,001 %	max. 0,001 %
ethanol (G.C.)	0,001 %	max. 0,05 %
aldehydes and ketones (as C ₂ H ₅ CHO)	< 0,001 %	max. 0,001 %
acetaldehyde (CH ₃ CHO)	< 0,001 %	max. 0,001 %
formaldehyde	< 0,0001 %	max. 0,0001 %
carbonyl compounds (as CO)	< 0,001 %	max. 0,001 %
substances darkened by H ₂ SO ₄	passes test	passes test
substances reducing KMnO ₄	passes test	passes test
residue on evaporation	< 0,0002 %	max. 0,0002 %
water (K.F.)	0,006 %	max. 0,03 %

liquid chromatography suitability

absorbance	passes test	passes test
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min. transmission/max. absorbance

in a 1,0 cm cell at

wavelength:	T(%) A (AU)	T(%) A (AU)
207 nm	20 % 0,702 AU	10 % 1,000 AU
220 nm	58 % 0,234 AU	50 % 0,301 AU
232 nm	81 % 0,092 AU	80 % 0,097 AU
242 nm	92 % 0,039 AU	90 % 0,046 AU
260 nm	99 % 0,007 AU	98 % 0,009 AU

Microfiltered through membranes

of pore diameter 0,22 µm

