

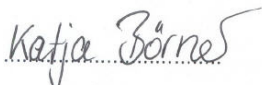
Certificate of Analysis

Product Name: Acetonitrile
LC-MS CHROMASOLV®
Product Number: 34967
Batch Number: SZBC311AV
Brand: Fluka
CAS Number: 75-05-8
Formula: C₂H₃N
Formula Weight: 41.05

TEST	SPECIFICATION	RESULT
assay (GC)	≥ 99.9	100.0 %
non-volatile matter	≤ 0.0002	< 0.0002 %
water (Karl Fischer)	≤ 0.01	0.002 %
free acid (as CH ₃ COOH)	≤ 0.001	0.0009 %
free alkali (as NH ₃)	≤ 0.0001	< 0.0001 %
silver (Ag)	≤ 0.1	< 0.1 ppm
aluminium (Al)	≤ 0.5	< 0.5 ppm
barium (Ba)	≤ 0.1	< 0.1 ppm
calcium (Ca)	≤ 0.1	< 0.1 ppm
cadmium (Cd)	≤ 0.05	< 0.05 ppm
cobalt (Co)	≤ 0.02	< 0.02 ppm
chromium (Cr)	≤ 0.02	< 0.02 ppm
copper (Cu)	≤ 0.02	< 0.02 ppm
iron (Fe)	≤ 0.1	< 0.1 ppm
potassium (K)	≤ 0.1	< 0.1 ppm
magnesium (Mg)	≤ 0.1	< 0.1 ppm
manganese (Mn)	≤ 0.02	< 0.02 ppm
sodium (Na)	≤ 0.1	< 0.1 ppm
nickel (Ni)	≤ 0.02	< 0.02 ppm
lead (Pb)	≤ 0.1	< 0.1 ppm
tin (Sn)	≤ 0.1	< 0.1 ppm
zinc (Zn)	≤ 0.1	< 0.1 ppm
transmittance at 195 nm	≥ 80	> 80 %
transmittance at 200 nm	≥ 95	> 95 %
transmittance from 230 nm	≥ 99	> 99 %

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HPLC-gradient at 210 nm	≤ 1	< 1 mAU
HPLC-gradient at 254 nm	≤ 0.2	< 0.2 mAU
baseline drift at 210 nm	≤ 12	< 12 mAU
fluorescence (chinin) at 254 nm	≤ 0.5	< 0.5 ppb
fluorescence (chinin) at 365 nm	≤ 0.5	< 0.5 ppb
suitability for the LC-MS	complying	complying
Production Date	06.Nov.12	
Expiry Date	27.Oct.14	
QC Release Date	16.Nov.12	



Katja Boerner
Quality Management
Seelze, Germany

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.