

Material Number: 85855.290
Material description: Methanol
Grade: HiPerSolv CHROMANORM® Ultra Plus
 for LC-MS, suitable for UPLC/UHPLC-MS
CAS Number: 67-56-1
Molecular weight: 32.04 g/mol
Molecular formula: CH₄O
Date specification set: 7th May 2018

(All batches of this product after this date are tested to this specification. In the unlikely event that the specification is changed a new certificate will be issued)

Characteristics	Specifications
Appearance	Clear colorless liquid
Color (APHA, Pt-Co)	max. 5
Assay (GC, on anhydrous basis)	min. 99.98 %
Residue after evaporation	max. 0.0001 %w/w
Water (KF)	max. 0.03 %w/w
Acidity (as Acetic acid)	max. 0.002 %
Alkalinity (as Ammonia)	max. 0.0001 %
UHPLC/MS/ESI+ (as Reserpine)	max. 6 ppb
H.Peak by PDAD 220-400nm	max. 0.004 AU
Grad. elution H.Peak at 220nm	max. 0.004 AU
Grad. elution drift at 220nm	max. 0.05 AU
Grad. elution H.Peak at 235nm	max. 0.002 AU
Grad. elution drift at 235nm	max. 0.015 AU
F254nm (as Quinine)	max. 0.5 ppb
F365nm (as Quinine)	max. 0.3 ppb
T210nm	min. 40 %
T220nm	min. 65 %
T230nm	min. 80 %
T260nm	min. 98 %
Ag (Silver)	max. 50 ppb
Al (Aluminum)	max. 20 ppb
Ba (Barium)	max. 50 ppb
Bi (Bismuth)	max. 50 ppb
Ca (Calcium)	max. 50 ppb
Cd (Cadmium)	max. 50 ppb
Co (Cobalt)	max. 20 ppb
Cr (Chromium)	max. 20 ppb
Cu (Copper)	max. 20 ppb
Fe (Iron)	max. 20 ppb
K (Potassium)	max. 50 ppb

Li (Lithium)	max. 50 ppb
Mg (Magnesium)	max. 20 ppb
Mn (Manganese)	max. 20 ppb
Mo (Molybdenum)	max. 50 ppb
Na (Sodium)	max. 50 ppb
Ni (Nickel)	max. 20 ppb
Pb (lead)	max. 20 ppb
Sn (Tin)	max. 50 ppb
Sr (Strontium)	max. 50 ppb
Zn (Zinc)	max. 50 ppb

Signature

We certify that this batch conforms to the specifications listed above.

This document has been produced electronically and is valid without a signature.

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